2018-2019 UNDERGRADUATE CATALOG

Advisor Reference Edition

Sample Degree Paths

Current Undergraduate Catalog

This bulletin was prepared by Western Kentucky University and paid from state funds (KRS 57.375). Bowling Green, Kentucky 42101-1017. All statements in this publication are announcements of present policy only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

Upon request, this publication is available in alternate format for persons with disabilities. Please contact: Joshua Hayes, Equal Opportunity /504/ADA Compliance Office, Wetherby Administration Building, Room G33, (270) 745-5121, (270) 745-8763, V/TDD.

Western Kentucky University is an equal opportunity institution of higher education and upon request provides reasonable accommodation to individuals with disabilities. www.wku.edu/eoo.

Leadership and Governance....3

Faculty of the University....3

2018-2019 Academic Year Calendar....3

The University....4
History....4
Mission, Purpose, and Core Values....4
Accreditations....5
University Notices....7

Enrolling at WKU....10
Admission....10
College Readiness....14
Topper Orientation Program (TOP)....16
Advising and Career Development Center....17
Transfer Center....18
Registration and Student Academic Records....18
Expenses and Fees....19
Financial Assistance....24
Housing and Residence Life....27

Academic Information....30
Academic Requirements and Regulations....30
Degree Requirements....37
Colonnade Requirements....40
Credit by Examination....46
Military Service Credit....55
Transfer of Credits....56
Academic Definitions....58
Academic Programs....59

University Libraries....72

Potter College of Arts & Letters....73
Art....73
Communication....77
Diversity & Community Studies....82
English....85
Folk Studies and Anthropology....89
History....91
Journalism & Broadcasting....95
Modern Languages....100
Music....107
Philosophy and Religion....112
Political Science....115
Sociology....119
Theatre and Dance....122
Interdisciplinary Programs....126

Gordon Ford College of Business....130
Accounting....133
Economics....135
Finance....138
Information Systems....140
Management....142
Marketing....146

College of Education and Behavioral Sciences....149
Counseling an Student Affairs....168
Educational Administration, Leadership and Research....168
Military Science and Leadership....159
Professional Studies....163
Psychology....161
Teacher Education....153

Ogden College of Science and Engineering....169
SKyTeach....170
Agriculture....170
Biology....175
Chemistry....178
Engineering and Applied Sciences....181
Geography and Geology....193
Mathematics....199
Physics and Astronomy....203
Psychological Sciences....206
Pre-Professional and Interdisciplinary Programs....210

College of Health and Human Services....220
Allied Health....223
Applied Human Sciences....224
Communication Sciences and Disorders....231
Kinesiology, Recreation, and Sport....232
Nursing....237
Physical Therapy....241
Public Health....241
Social Work....249

Course Descriptions....251

Special Programs and Divisions....356
Mahurin Honors College....356
Office of Scholar Development....357
Gatton Academy of Mathematics and Science....358
International Student Office....358
Study Abroad and Global Learning....359
ESLI....360
Fulbright Faculty and Student Programs....361
Division of Extended Learning and Outreach....361
Regional Campuses....363
ROTC – Army and Air Force....364
The Graduate School....364
Information Technology....365
Kentucky Museum....365
Suzanne Vitale Clinical Education Complex....365
University Lecture Series....366

Student Conduct Policies....367

Student Services and Activities....383

Index....394

Leadership and Governance

President of the University
Dr. Timothy C. Caboni

Board of Regents
Dr. Phillip Bale, Chair, Glasgow, KY
Mr. Gillard B. Johnson III, Vice Chair, Nicholasville, KY
Mr. Frederick A. Higdon, Secretary, Lebanon, KY
Ms. Linda G. Ball, Madisonville, KY
Mr. David S. Brinkley, Staff Regent, Alvaton, KY
Dr. Claus Ernst, Faculty Regent, Bowling Green, KY
Ms. Julie Harris Hinson, Prospect, KY
Mr. Stephen Mayer, Student Regent, Louisville, KY
Mr. Jason L. McKinney, Alvaton, KY
Mr. George Nichols III, Potomac, MD
Mr. J. David Porter, Lexington, KY

WKU President's Cabinet
Dr. Timothy C. Caboni, President
Dr. Terry Ballman, Provost and Vice President for Academic Affairs
Mr. John Paul Blair, Interim Vice President for Philanthropy and Alumni Engagement
Dr. Lynne Holland, Assistant Vice President, Dean of Students and Chief Diversity Officer
Mr. Brian Kuster, Vice President for Enrollment and Student Experience
Ms. K. Ann Mead, Senior Vice President for Finance and Administration
Mr. Bryan Russell, Chief Facilities Officer
Mr. Todd Stewart, Director of Athletics
Ms. Robbin Taylor, Vice President for Public Affairs
Ms. Deborah T. Wilkins, General Counsel

Academic Deans
Dr. Catherine Carey (Interim), Gordon Ford College of Business
Dr. Cheryl Davis (Interim), The Graduate School
Ms. Susann deVries, University Libraries
Dr. Dennis George (Interim), College of Health and Human Services
Dr. Corinne Murphy, College of Education & Behavioral Sciences
Dr. Lawrence Snyder, Potter College of Arts and Letters
Dr. Cheryl Stevens, Ogden College of Science and Engineering

College Heights Foundation Board of Directors
Dr. Donald Smith, President
Mr. Michael L. Simpson, Chair
Mrs. Carol Wedge, Vice Chair
Dr. Timothy Caboni
General E. Daniel Cherry
Mr. Alex Downing
Dr. Jack G. Glasser
Mr. Clarence Glover
Mr. R. Harvey Johnston, III
Mr. Marc A. Lovell
Dr. Jerry W. Martin
Mr. Joe B. Natcher, Jr.
Ms. Wanda J. Scott
Mr. Freddie Travis

2018-2019 Academic Year Calendar

FALL SEMESTER 2018

Classes Begin	Monday, August 27
5 Week Session 1	Monday, August 27-Friday September 3
Labor Day (university closed)	Monday, September 3
5 Week Session 2	Monday, October 1-Friday, November 2
Fall Break (no classes; offices open)	Thursday-Friday, October 11 - 12
Second Bi-Term Begins	Thursday, October 18
5 Week Session 3	Monday, November 5-Friday, December 7
Thanksgiving Holiday	Wednesday-Friday, November 21 - 23
Final Examinations	Monday-Friday, December 10 - 14
Commencement	Saturday, December 15
Final Grades Due	Tuesday, December 18

WINTER TERM 2019

Classes Begin	Monday, January 2
MLK Day (university closed)	Monday, January 21
Final Examinations	Friday, January 18

SPRING SEMESTER 2019

Classes Begin	Tuesday, January 22
5 Week Session 1 Begins	Tuesday, January 22-Friday, February 22
5 Week Session 2 Begins	Monday, February 25 - Friday April 5
Spring Break	Monday - Friday: March 4 - 8
Second Bi-Term Begins	Monday, March 19
5 Week Session 3 Begins	Monday, April 8 - Friday, May 10
Final Examinations	Monday - Friday, May 6-10
Commencement Weekend	Friday - Sunday, May 10-11
Final Grades Due	Tuesday, May 14

SUMMER TERM 2019

May Sessions: Classes Begin	Monday, May 13
Memorial Day (university closed)	Monday, May 27
June I Sessions: Classes Begin	Monday, June 3
June II Sessions: Classes Begin	Monday, June 10
July I Sessions: Classes Begin	Monday, July 8
Independence Day: (University Closed)	Thursday, July 4
July II Sessions: Classes Begin	Monday, July 15
Summer Term Ends	Thursday, August 8

Faculty of the University

WKU faculty engage in creative activity and diverse scholarship, including basic and applied research that expands knowledge, improves instruction, increases learning, and provides service to the state and the nation. For information regarding faculty expertise (full and part-time), including academic department, professional rank, and highest degree held see: http://www.wku.edu/faculty/. University Distinguished Professors and faculty holding graduate status are also noted at the above website.

The University

Welcome to Western Kentucky University (WKU), home of the Hilltoppers. Our hilltop campus is a place of beauty and friendliness. It embraces a proud heritage and a bold, ambitious future. WKU is located in Bowling Green, Kentucky, a city with a population of more than 60,000 approximately 110 miles south of Louisville and 65 miles north of Nashville. As a distinctive landmark on a hill overlooking the city, the WKU campus commands an impressive view of the Barren River Valley and is acclaimed as one of the most beautiful campuses in the nation. Visit wku.edu/tour for a virtual campus tour. In addition to main campus, WKU has locations at South Campus, the Center for Research and Development, and the University Farm. Outside of Bowling Green, there are Regional Campuses in Glasgow, Owensboro, and Elizabethtown-Fort Knox.

WKU's undergraduate division provides four-year programs leading to the Bachelor of Arts, the Bachelor of Fine Arts, the Bachelor of Interdisciplinary Studies, the Bachelor of Science, the Bachelor of Science in Nursing, the Bachelor of Music, and the Bachelor of Social Work degrees. One hundred (100) academic majors that lead to the baccalaureate degree and one hundred nine (109) academic minors are available. A number of professional and pre-professional advising tracks provide additional options.

Eight (8) associate degree programs are offered leading to the Associate of Arts degree, Associate of Science degree, Associate of Science in Nursing and Associate of Interdisciplinary Studies degree. Thirty-Eight (38) undergraduate certificate programs are also offered.

WKU offers the Master of Accountancy, Master of Arts, Master of Arts in Education, Master of Arts in Teaching, Master of Business Administration, Master of Fine Arts, Master of Health Administration, Master of Music, Master of Public Administration, Master of Public Health, Master of Science, Master of Science in Nursing, Master of Social Work, and Specialist in Education. Doctoral degree programs are offered in Educational Leadership, Nursing Practice, Physical Therapy, and Applied Psychology. WKU also offers Rank I and II programs, various endorsements, and Thirty-Eight (38) graduate certificate programs. Consult The Graduate Catalog for further information, catalog.wku.edu/graduate.

History

On March 21, 1906 the Kentucky General Assembly approved legislation to establish two teacher training institutions, or "normal schools," in the state. A locating commission chose Bowling Green to be the site of one, and the Western Kentucky State Normal School was created. The new state-supported school took over the building and student body of the privately owned Southern Normal School. The owner of the Southern Normal School, Henry Hardin Cherry, had been actively involved in the campaign to establish teacher training schools and became the institution's first president. Classes began on January 22, 1907.

On February 4, 1911 the school moved to its present site on "the Hill," approximately 125 feet above downtown Bowling Green and formerly the site of the Pleasant J. Potter College. Over the next decade, the curriculum focused on teacher training and certification. In 1922, the state renamed the institution Western Kentucky State Normal School and Teachers College and authorized it to grant four-year degrees. The first such degrees were awarded in 1924.

The campus expanded in 1927, when it merged with Ogden College, a private school for young men located on the east side of the Hill. The name was shortened to Western Kentucky State Teachers College in 1930, and the following year the first graduate degree was offered.

In the 1950s and 1960s, both the curriculum and campus underwent major reorganization and expansion. In 1963, the institution merged with the Bowling Green College of Commerce. Along with The Graduate School, the Bowling Green College of Commerce became a separate college within the academic structure. In 1965, the Board of Regents approved the formation of three more colleges: the Potter College of Liberal Arts, the College of Education, and the Ogden College of Science and Technology. On June 16, 1966, Western Kentucky State College became Western Kentucky University.

More colleges and reorganization followed throughout the years as WKU continued to expand. The College of Health and Human Services was established in 2002, and the Division of Extended Learning and Outreach launched in 2003. In 2008, the WKU Board of Regents approved creation and development of a fully-independent Honors College at WKU. In 2011, the first doctoral degrees were awarded through the College of Education and Behavioral Sciences. In 2011 and 2013 two new professional practice doctoral degrees, the Doctor of Nursing Practice and the Doctor of Physical Therapy, were established, and in 2015 the Doctor of Psychology was added.

WKU's five academic colleges are:

- College of Education and Behavioral Sciences
- College of Health and Human Services
- Gordon Ford College of Business
- Ogden College of Science and Engineering
- Potter College of Arts & Letters

In addition, the Dixie and Peter Mahurin Honors College offers high-achieving students the environment of a small, highly selective college within the framework of the larger university.

The Mission, Statement of Purpose, and Core Values of Western Kentucky University

Mission

Western Kentucky University (WKU) prepares students of all backgrounds to be productive, engaged, and socially responsible citizen-leaders of a global society. The University provides research, service, and lifelong learning opportunities for its students, faculty, and other constituents. WKU enriches the quality of life for those within its reach.

Statement of Purpose

WKU is engaged in internationally acclaimed, student-and-learning-centered academic programs. The WKU experience occurs on several unique campus environments and through an overarching spirit which attracts an intellectually exciting and diverse family of the nation's best students. WKU provides students of all backgrounds with rigorous academic programs in education, the liberal arts and sciences, the health sciences, and business, with emphasis at the baccalaureate and masters levels, complemented by relevant associate and doctoral level programs. The University places a premium on student learning; it is committed to ensuring value in a holistic learning experience through high standards for student achievement and conduct, a strong faculty, technological innovation, personalized attention, broad access, and public accountability for actions and outcomes. Out-of-the-classroom and study abroad experiences enhance learning, promote diversity, and contribute to the success of students.

The University encourages engaged research and public service in support of economic development, quality of life, and improvement of education at all levels. WKU faculty contribute to the identification and solution of key social, economic, scientific, health, and environmental problems. An inspiring and talented faculty promotes a high level of creative activity and diverse scholarship and an entrepreneurial attitude designed to expand knowledge, improve instruction, increase learning, and provide applied solutions toward high-quality service to the state and nation. The University directly supports its constituents in its designated service areas of Kentucky with professional and technical expertise, cultural enrichment, and educational assistance.

Maintaining a campus of distinctive history and character, WKU sustains a student population of increasing quality. It fulfills its responsibility for access through its main and regional campuses, and through extensive distance learning opportunities. WKU recognizes that its mission continues to evolve in response to regional, national, and global changes, and the need for lifelong learning.

Core Values

Shared purposes and beliefs drive the decisions and actions of any organization or institution. The core values that undergird the foundations of WKU are reflected in the University's mission, and purpose statements, and in the goals of the strategic plan. The rich heritage that is WKU's has been built upon a foundation of shared values that have withstood the test of time and the challenges of many changes. These values are deeply embedded in the words of WKU's first President, Dr. Henry Hardin Cherry, as he set forth a vision for this University—

- to be a live school and to impart to its students a burning zeal to do and be something…
- to be progressive, to use modern methods and equipment, but reject all worthless educational fads…
- to let the reputation of the school be sustained by real merit…
- to "ring the rising bell in the human soul" by inspiring all students who come in touch with the work of the institution…

The core values are further reflected in Dr. Cherry's oft-quoted reminder that "It's what's above the rim that counts" and in the two University ideals expressed in the University seal: "Life More Life" and the University motto: "The Spirit Makes the Master."

Building upon these long-lasting values, the following core values represent a reaffirmation of the shared purposes and beliefs upon which this strategic plan is built:

- Emphasis on cooperation, teamwork, and mutual respect for individual differences in scholarship, diversity, and culture.
- Expectation for all conduct to be characterized by integrity, honesty, and commitment to high moral and ethical values and principles.

- Commitment to assuring quality of programs, competence of graduates, and opportunities for lifelong learning.
- A view of scholarly endeavors that includes teaching, research, and creative activities as mutually supportive.
- Encouragement of meaningful and active partnerships among students, faculty, staff, and constituents to strengthen the learning environment.
- Nurturing of innovative and creative activities of faculty, staff, and students that advance University mission and goals.
- Dedication to the importance of achieving excellence in all programs and for adding value to the degrees and credentials of our students.
- Commitment to providing a collegiate experience that prepares students to be informed, engaged, and dedicated citizens.
- Commitment to contributing to improved quality of life and economic well-being of Kentuckians, especially those in our primary service area, as well as other constituents and stakeholders.
- Commitment to developing empowered, informed, and responsible learners who recognize both the personal and shared responsibility to actively participate in university life by upholding the principles of the University Creed.

Accreditations

Western Kentucky University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccalaureate, masters, specialist, and doctorate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097 or call (404) 679-4500 for questions about the accreditation of Western Kentucky University.

Undergraduate Programs' Accreditation:

Accounting: The Association to Advance Collegiate Schools of Business (AACSB International) (BS Program)

Architectural Science: The Association of Technology, Management, and Applied Engineering (ATMAE) (BS Program)

Art: National Association of Schools of Art and Design (NASAD) Commission on Accreditation AB in Art History, AB in Visual Studies: (Art Education and Studio concentrations), BFA in Visual Arts (Graphic Design and Studio Concentrations)

Business: The Association to Advance Collegiate Schools of Business (AACSB International) (Undergraduate Programs)

Civil Engineering: Engineering Accreditation Commission of ABET, http://www.abet.org (BS Program)

Construction Management: The Association of Technology, Management, and Applied Engineering (ATMAE) (BS Program)

Dance: National Association of Schools of Dance (NASD) Commission on Accreditation (AB Program)

Dental Hygiene: Commission on Dental Accreditation of American Dental Association (CODA-ADA) (BS and AS Programs)

Dietetics: Accreditation Council for Education in Nutrition and Dietetics (ACEND) (BS Program)

Early Child Education: National Association for the Education of Young Children (NAEYC) (AA program)

Education: National Council for Accreditation of Teacher Education (NCATE) (Initial and Advanced Educator Preparation Levels), and Kentucky's Educational Professional Standards Board (EPSB)

Electrical Engineering: Engineering Accreditation Commission of ABET, http://www.abet.org (BS Program)

Healthcare Administration: Association of University Programs in Health Administration (AUPHA) (BS Program)

Health Information Management: Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) (BS Program)

Interior Design: National Association of Schools of Art and Design (NASAD) Commission on Accreditation (BS Interior Design and Fashion Merchandising (Interior Design Concentration))

Journalism: Accrediting Council on Education in Journalism and Mass Communications (ACEJMC) (Undergraduate Programs)

Long Term Care Administration: National Association of Long Term Care Administrator Boards (NAB) (BS in Healthcare Administration with a Long-term Administration Certificate)

Manufacturing Engineering Technology: The Association of Technology, Management, and Applied Engineering (ATMAE) (BS Program)

Mechanical Engineering: Engineering Accreditation Commission of ABET, http://www.abet.org (BS Program)

Music: National Association of Schools of Music (NASM) Commission on Accreditation (BM and AB Programs)

Nursing: Commission on Collegiate Nursing Education (CCNE) (BSN) and Accreditation Commission for Education in Nursing (ACEN) (ASN Program)

Public Health: Council on Education for Public Health (CEPH) (BS Program)

Recreation Administration: Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT) (BS Program)

Social Work: Council on Social Work Education (CSWE) (BSW Program)

Theatre: National Association of Schools of Theatre (NAST) Commission on Accreditation (AB in Theatre and BFA in Performing Arts)

University Notices and the Non-Discrimination Statement.

Notification of Rights: Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records, including

1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for an amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent, including disclosure without the student's consent is permissible to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Regents; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Western Kentucky University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, SW
   Washington, DC 20202-8520

Release of student record information is generally not done at WKU without the expressed, written consent of the student; however, FERPA allows several exceptions described below:

1. FERPA allows the institution to routinely release information defined as "directory information." The following student information is included in the definition: the student's name, address, e-mail address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, enrollment status (including full-time, part-time, not enrolled, withdrawn and date of withdrawal), degree and awards received, and the most recent previous education agency or institution attended by the student. When a student wants any part of the directory information to remain confidential, an official request form must be completed in the Office of the Registrar within the first five days of class of each school term.
2. Upon request, WKU may disclose education records without the student's consent to officials of another school in which a student seeks to enroll, or where the student is already enrolled as long as the disclosure is for purposes related to the student's enrollment or transfer.
3. Effective January 3, 2012, the U.S. Department of Education's FERPA regulations expanded the circumstances under which the student's education records and personally identifiable information (PII) contained in such records—including Social Security Number, grades, or other private information—may be accessed without the student's consent.
    a) First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to the student's records and PII without the student's consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an education agency or institution.
    b) Second, Federal and State Authorities may allow access to the student's education records and PII without the student's consent to researchers performing certain types of studies, in certain cases even when the university objects to or does not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive the student's PII, but the Authorities need not maintain direct control over such entities.
    c) In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without the student's consent PII from the student's education records, and they may track the student's participation in education and other programs by linking such PII to other personal information about the student that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

Questions pertaining to the Family Educational Rights and Privacy Act may be directed to the University Registrar, 238 Potter Hall, (270) 745-3351.

Student Right-to-Know Act Annual Disclosure Statement

In compliance with the federal Student Right-to-Know and Campus Security Act of 1990, the University's graduation rate is to be made available, upon request, to potential and currently enrolled students. The Act requires public disclosure beginning July 1, 1993, of this information by institutions of higher education receiving federal financial assistance.

Western Kentucky University's graduation rate was calculated using definitions established by the U. S. Department of Education. This rate is based upon the number of beginning freshmen who entered Western Kentucky University as full-time degree-seeking students during the 2011 fall semester and who completed an associate degree or a baccalaureate degree within six years (through August, 2017). For this cohort of beginning students, the graduation rate is 44.15%.

Kentucky Center for Education & Workforce Statistics: Post-Secondary Feedback Report

The Postsecondary Feedback Reports take a deep look into what happens to Kentucky graduates after they leave college. Each report provides in-depth data by institution about which degrees are pursued, the employment of graduates as well as information about students who go on to pursue advanced degrees, average wages for various degree categories, and some insights into what happens to students who leave without a credential and do not continue their education elsewhere. Reports are created for each of the commonwealth's public 4-year, public 2-year and independent institutions.

For more information and to view the report please go to: https://kystats.ky.gov/Reports/Reports

Statement of Compliance

Western Kentucky University (WKU) is committed to equal opportunity in its educational programs and employment. The University is an Equal Employment Opportunity/Affirmative Action employer, and does not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity/expression, marital status, age, uniform service, veteran status, or physical or mental disability. On request, WKU will provide reasonable accommodations, including auxiliary aids and services, necessary to afford an individual with a disability an equal opportunity to participate in all services, programs, activities, and employment.

The University has published policies and procedures for investigating and/or addressing discrimination or harassment in its educational programs and/or employment. If you believe you have experienced discrimination or harassment in such programs, activities, or employment, policies and procedures are included on the following website: http://www.wku.edu/policies/ (WKU Policies), in addition to the WKU Student Handbook, and Undergraduate and Graduate Catalogs. These publications, including information about University procedures, are available on the University's website (www.wku.edu), at:

WKU Policies: http://www.wku.edu/policies/
WKU Student Handbook: http://www.wku.edu/handbook/
WKU Undergraduate Catalog: https://www.wku.edu/undergraduatecatalog/
WKU Graduate Catalog: http://catalog.wku.edu/graduate

The following person has been designated to serve as the University's **Title IX Coordinator**:

Ms. Andrea Anderson
Assistant General Counsel
Craig Administrative Center
1906 College Heights Blvd. #11001
Bowling Green, KY 42101-1001
andrea.anderson@wku.edu
270-745-5398

Information regarding WKU's Title IX compliance, policies, and procedures may be found on the following websites: https://www.wku.edu/eoo/titleix/index.php or https://www.wku.edu/studentconduct/titlenine.php.

In addition, information or assistance may be requested from the following:

Office of Equal Employment Opportunity / Affirmative Action/University ADA Services
Wetherby Administration Building, Room G33
1906 College Heights Blvd. #11009
Bowling Green, KY 42101-1009
(270) 745-5121

Department of Human Resources
Wetherby Administration Building, Room G25
1906 College Heights Blvd. #11003
Bowling Green, KY 42101-1003
(270) 745-5360

Academic Affairs & Provost's Office
Wetherby Administration Building, Room 239
1906 College Heights Blvd. #11008
Bowling Green, KY 42101-1008
Phone: (270) 745-2297

Inquiries about alleged discrimination may also be made directly to the Office for Civil Rights, U.S. Department of Education, The Wanamaker Building, Suite 515, 100 Penn Square East, Philadelphia, PA 19107, (215) 656-8548; the Kentucky Commission on Human Rights, 832 Capital Plaza, 500 Mero Street, Frankfort, Kentucky, 60601, (800) 292-5566; (TDD) (502) 595-4084; or the Equal Employment Opportunity Commission, 600 Martin Luther King, Jr. Place, Suite 268, Louisville, Kentucky 40202, (800) 669-4000; TTY (800) 669-6820.

Enrolling at WKU

Admission

Dr. Jace Lux, Director
Office of Admissions: Potter Hall, Office 117
Phone: (270) 745-2551; Fax: (270) 745-6133
Email: admission@wku.edu
Website: www.wku.edu/admissions

Policies

WKU's admission policy is designed to provide educational opportunities for students who have a serious commitment to continuing their formal education and reasonable prospects for academic achievement.

In evaluating applications for admission, factors that may be considered include: complete and accurate information listed on the application for admission; high school performance; scores achieved on the American College Test (ACT) or Scholastic Assessment Test (SAT) (Western Kentucky University does not require students to submit the optional written portion of either the SAT or the ACT for consideration in admission to the University); post-secondary academic record, if any.

By recognizing differences in interests and levels of achievement, the admissions process is the initial step in providing students with personalized counseling. An application for admission should be submitted well in advance of the term for which the student plans to enroll. Beginning freshmen should complete the application process early in their senior year in high school.

Pre-College Curriculum

To ensure a proper foundation for University study, the following college preparatory curriculum is required as a minimum for all students.

Applicants must be graduates of a public high school or a certified non-public high school. Applicants matriculating from a high school in Kentucky during or after 2012 must have earned 22 or more high school credits, which should include the following: 4 credits of English (English I, II, III, and IV); 3 credits of mathematics (Algebra I, Algebra II and Geometry or Integrated Math I, II, and III); 3 credits of social studies; and 3 credits of science; ½ credit of health; ½ credit of physical education; 1 credit of history and appreciation of visual, performing arts; and 2 credits of the same foreign language.

In addition to these requirements, it is recommended that students take additional high school courses in foreign languages, the arts, science, and mathematics.

High school graduates from states other than Kentucky may follow pre-college curriculum requirements (college prep courses) from their state of residence.

Applicants who are 21 years or older do not have to complete the Pre-College Curriculum or submit ACT/SAT scores. Active duty military, their spouses, and dependents are also not required to complete the Pre-College Curriculum, and transfer students with at least 24 semester credit hours are not required to complete the Pre-College Curriculum.

Admission

The Office of Admissions evaluates whether students meet the standards for admission as determined by the University. These criteria are subject to review and revision by the University at any time. Current admissions requirements are available on the Office of Admissions' website (http://www.wku.edu/admissions/).

Students admitted to WKU are subject to placement in academic support programs, based on their previous academic work.

WKU has separate policies for admission by exception and for students with GED certificates. Students with a GED must fulfill the following requirements: fulfillment of the pre-college curriculum (unless the applicant is 21 years of age or older); be at least 16 years old; and have a 540 GED test average (if the GED was taken prior to 2014; if the GED was taken after 2014, a 164 in each subject area [656 total score] is required), and 20 composite ACT or 1020 total (math + evidence based reading and writing) SAT (unless the applicant is 21 years of age or older). WKU will accept a 940 combined score (critical reading + math) if the SAT was taken prior to March, 2016 or a 1020 combined score (Evidence-based reading and writing + math) if taken March 1, 2016 or after. For additional information, see the Admissions website (http://www.wku.edu/admissions/) or email admission@wku.edu.

Other Admission Considerations – SPECIAL APPROVAL CATEGORIES

Graduates of non-accredited high schools. Admission may be granted on the basis of completion of the pre-college curriculum and a satisfactory high school record that has been validated through satisfactory scores on the American College Test or the Scholastic Assessment Test.

Early admission. High school students who are within one unit of graduation and have a superior academic record may be admitted upon special approval from the Office of Admissions. Applicants should submit a high school transcript and ACT scores with the application.

Concurrent high school-college enrollment. Superior high school students may be admitted to enroll in one course each semester concurrent with high school enrollment.

Dual Credit Program. The Division of Extended Learning & Outreach (DELO) administers a Dual Credit program at participating high schools. The Dual Credit program allows students to earn college credit as part of their high-school curriculum. Courses are offered at a substantially reduced tuition rate and provide a means of preparing college-bound students for the challenge of university coursework. www.wku.edu/delo.

Summer admission. High school students who have not achieved senior standing may apply for admission to take non-academic courses during the summer. Permission of the department may be required.

GED Applicants. All Kentucky students who have earned a GED are also obligated to have completed the pre-college curriculum requirements for entry to Western Kentucky University (unless the applicant is 21 years of age or older). Students who do not meet the pre-college curriculum requirements may be eligible for admission to the University College. Non-resident applicants are required to fulfill their state's pre-college curriculum.

Non-degree applicants. Students who do not expect to become applicants for any certificate or degree may enroll upon approval of the Office of Admissions. They will not be required to follow any regular curriculum, but they will be subject to all other rules and regulations of the University.

Senior Citizens. Kentucky residents who are 65 years of age or older, on or before the day the semester begins, are granted Senior Citizen Scholarships for any college class in which they enroll for credit or to audit.

Checklist for Applying to WKU*

Entrance Level	Records Needed	When to Apply
Beginning Freshman	• Application Fee • High school transcript • ACT scores (or SAT)	Early in senior year
Transfer	• Application Fee • One official transcript from each postsecondary institution attended • (High school transcript also required if less than 24 semester hours earned) • ACT (or SAT) scores (unless the applicant is 21 years of age or older)	At least one semester prior to entrance
Readmission	• One official transcript from each institution attended since leaving WKU	At least one semester prior to entrance
Visitor	• Application Fee • Letter of good standing from home institution	At least 30 days before term begins
International Students	• Contact the Office of International Admissions	As early as possible

These requirements were current at the time of publication, but may be revised at any time by the university.

International Admissions Office

Ms. Stephanie Sieggreen, Executive Director
Office of International Enrollment Management
Phone: (270) 745-4857; Fax: (270) 745-6144
Email: iem@wku.edu
Website: www.wku.edu/international

Western Kentucky University is committed to promoting international understanding through intercultural exchange derived from the admission of qualified international students from countries throughout the world. The University's academic requirements for admission as described in the preceding sections must be met. All necessary documents including academic records and proof of English language proficiency must be received before WKU International Enrollment Management (IEM) will review student credentials and render the admission decision. International students must also provide financial documents in order to obtain an I-20 or DS-2019.

Decisions regarding admission and the issuance of immigration documents are made in compliance with all federal and state guidelines and in compliance with admissions standards and the policies of the University.

All official transcripts from each college or university attended must be in English. It is each student's responsibility to have the documents translated before IEM can determine the student's admissibility. WKU does not provide translation services; however, students may contact the embassy/consulate of the country in which documents are issued, a certified translation service, or Education USA for translation assistance.

The following will apply:

- All information must be translated into English.
- Translation must be exactly the same as the original document including format.
- No interpretation or evaluation of information should be included.
- Translation must be typed, signed, and dated by the translator. Contact information for the translator must be listed including address, phone number(s), email address, and fax number (if available).
- Each applicant is responsible for any altered or fraudulent documents submitted; the applicant will be denied admission and the issuing board or institution will be notified.
- Western Kentucky University reserves the right to request professional credential evaluation by an independent third party.

International Undergraduate English Proficiency Requirements - All applicants from non-English speaking countries are required to take the Test of English as a Foreign Language (TOEFL), or the International English Language Testing System (IELTS) offered by the Educational Testing Service, or one of the approved methods listed below. It is the applicant's responsibility to obtain the necessary information and application forms, and to arrange to take the test by a date that assures the results are reported to the University by the required International Admissions deadlines. The test of English proficiency must be completed no more than two years before the date of receipt by WKU. English proficiency tests older than two years are invalid. Transfer students may demonstrate proof of English proficiency by completing 24 or more hours at a U.S. regionally accredited university with a minimum cumulative grade point average of 2.0.

Transfer Students must meet the academic transfer requirement set forth by WKU and may demonstrate proof of English proficiency by completing 24 or more hours at a U.S. regionally accredited university with a minimum cumulative grade point average of 2.0. Transfer students without 24 credits from a U.S. institution, will be required to meet the English proficiency requirements as stated under the Direct admit section below.

Direct admit students must have a secondary school education and a minimum grade point average (GPA) of 2.5, demonstrated financial resources, and proficiency in English as determined by one of the following:

Test	Score (minimum)
TOEFL iBT	71
IELTS (academic version)	6.0
ELS	109
Pearson Test of English – Academic (PTEA)	52
SAT Critical Reading (before March 2016)	450
SAT Evidence Based Reading and Writing (March 1, 2016 and after)	460
ESLi on WKU's Campus	Completion of Program

NOTE: English proficiency and GPA calculations will be determined using methods approved and published by organizations such as AACRAO, and ECE. Academic programs may require specific English proficiency tests and/or test score above the direct admission requirement. Nursing: http://www.wku.edu/nursing/documents/approvedtoefl.pdf.

J-1 Non-Degree Exchange Visitors Undergraduate English Proficiency Admission Requirements – Exchange visitors must provide proof of English proficiency. A detailed description of the minimum admission requirements are outlined at: http://www.wku.edu/international/intlreq.php.

Official Transcripts of International Students – Students who have attended any educational institution will need to request that all schools attended send official transcript(s) directly to Western Kentucky University. Some educational institutions do not issue transcripts to other schools; instead they issue transcripts or the original certificate/mark sheet to students. In this case, students should provide a photocopy of the original document. This can be sent via email to iem@wku.edu or upload to (http://intranet.wku.edu/php/prod/iem_upload/index.php). If deemed necessary by IEM, an official translated copy of the transcript(s) must be provided. Consulates and embassies often serve as a resource for the attestation of educational documents. Students on WKU's campus may bring the original transcript(s) or document(s) to the IEM for review and verification.

College credit is acceptable if earned at a regionally accredited U.S. institution or the equivalent as determined by the in-house discipline faculty. Transfer students with less than 24 hours at any institutions will be required to submit secondary school transcripts, in addition to transcript(s) with college credit, for review at time of application. Transfer student with 24+ hours of college credit are not required to submit secondary school transcripts (College transcripts are required).

Alternative International Student Placement at WKU - WKU offers a pathway program that includes one year of credit and/or non-credit bearing academic courses to prepare international students for university studies in the United States. Students must have a secondary school education and a minimum grade point average (GPA) of 2.0, demonstrated financial resources, and proficiency in English as determined by one of the following: or a 61 on the TOEFL internet-based test, an IELTS (academic version) of 5.5, or a 45 on the Pearson Test of English – Academic (PTEA). Any applicant meeting these requirements will be admissible to the Pathway. Upon obtaining 24 credit hours in good standing, students will have completed the Pathway.

Students that do not meet the minimum English proficiency requirements of the Pathway program may be eligible for ESLi at WKU. For more information on ESLi please visit: https://www.wku.edu/esli/.

Supplemental Requirements:

WKU	Application Fee ($75)	Final High School Transcript/Diploma	Credential Verification and in-House Evaluation	TOP
Direct Admit	Required	Required	Required	Required
ESLI	Required	Required	Required	N/A
Pathway	Required	Required	Required	N/A
Transfer	Required	High School & College Transcript	Required	Required

Note: *TOP is a new student orientation program provided jointly with WKU Admissions. TOP helps students become more familiar with Western Kentucky University and provides an opportunity to meet with an academic advisor from your chosen major in a small group setting. You will also register for classes and receive a copy of your class schedule. Placement exams are also administered (COMPASS, MPE, ACCUPLACER), during the TOP orientation.*

Joint Admissions

WKU partners with community colleges through the Joint Admissions Program. Students participating in Joint Admissions are admitted to a participating community college and WKU at the same time as they work toward completing their community college degree. WKU currently has joint admission agreements with the following KCTCS institutions: Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Henderson Community College, Hopkinsville Community College, Jefferson Community and Technical College, Madisonville Community College, Owensboro Community and Technical College, Somerset Community College, and Southcentral Kentucky Community and Technical College. Additionally, WKU has joint admission agreements with Volunteer State Community College in Tennessee and Ivy Tech Community College – Southwest located in Indiana. For more information, contact joint.admissions@wku.edu.

Residency Determinations

Determination of residency for admission and tuition assessment is governed by state regulation 13 KAR 2:045. The regulation can be viewed on the Kentucky Council on Postsecondary Education web site http://cpe.ky.gov/legislation/residency.html. Information about WKU's residency policy is available at http://www.wku.edu/admissions/residency.php. Residency determinations are made and communicated to the student at the point of admission. It is the student's responsibility to initiate a residency reclassification review if the residency decision is thought to be incorrect. Residency determinations cannot be made retroactively.

Beginning with the 2017-2018 academic year, an active member of the Kentucky National Guard who enrolls as a student in a Kentucky public university as a non-Kentucky resident shall be considered a Kentucky resident for tuition purposes per KRS 164.2844(2).

Admission Appeal Procedures

When further consideration of a WKU admission decision is desired, the University Admission Appeals Committee shall have the responsibility for reviewing the situation to determine if the decision was in keeping with existing policy.

An appeal will only be considered by this committee after a letter of appeal written and signed by the applicant has been submitted to the Director of Admissions clearly explaining the reasons the student feels an exception should be made. The letter of appeal should include details that the applicant considers appropriate. The University Admissions Appeals Committee will convene using the letter of appeal, as well as all admission materials, as the basis for decision. The applicant will be informed in writing of the decision of the committee. For additional information concerning admission appeals, contact the Office of Admissions at admission@wku.edu.

Departments Requiring Additional Admission

Students should be aware that several academic majors require admission to the program in addition to admission to Western Kentucky University. Students should contact the specific department to determine any additional admission requirements. Baccalaureate degree programs generally accept applications for admission by the third year of study, while associate degree programs generally accept applications by the second semester of the first year. Students interested in associate degree programs are encouraged to contact the department well in advance of initial enrollment. University admission is required before departmental admission can be considered.

The Graduate School Admission

Information regarding admission to the Graduate School is published in the Graduate Catalog at http://catalog.wku.edu, or contact the Graduate School at graduate.school@wku.edu or (270) 745-2446.

Joint Undergraduate-Master's Degree Programs (JUMP) – JUMP programs provide academically outstanding students the opportunity to complete both an undergraduate and graduate degree in approximately five years. Qualified students who have been admitted to a JUMP program may complete a maximum of 18 graduate hours as an undergraduate student and count a maximum of 12 hours on both the undergraduate and graduate transcript as prescribed by the program. Students will apply to Graduate School upon or before earning more than 18 graduate hours. Each JUMP program has individualized admission criteria. Search "JUMP" in the Graduate Catalog for a complete list of programs and contact the academic department for additional information.

College Readiness

The Kentucky Council on Postsecondary Education (CPE), working with the universities, and the Kentucky Department of Education developed minimum qualifications for admission to state-supported postsecondary education. These standards, referenced as college readiness indicators, are identified below and posted on the CPE website (http://cpe.ky.gov/policies/collegereadiness.html). Failure to meet one or more of the standards constitutes a deficiency.

The current **College Readiness Standards** established by the Kentucky Council on Postsecondary Education are as follows:

Tests	English	Mathematics	Reading
ACT Scores (Taken after 10/1989)	18 or higher on English	***Quantitative Reasoning*:** 19 or higher on Mathematics ***College Algebra*:** 22 or higher on Mathematics ***Calculus*:** 27 or higher on Mathematics	20 or higher on Reading
SAT Scores (Prior to March 2016)	430 or higher on Writing (CPE, or 450 or higher on Critical Reading (WKU)	***Quantitative Reasoning:*** 460 or higher on Mathematics ***College Algebra:*** 510 or higher on Mathematics ***Calculus:*** 610 or higher on Mathematics	470 or higher on Critical Reading
SAT Scores (Beginning March 2016)	480 or higher on Evidence-Based Reading & Writing (CPE), or 25 or higher on Writing and Language (WKU)	***Quantitative Reasoning:*** 500 or higher on Mathematics ***College Algebra:*** 560 or higher on Mathematics ***Calculus:*** 650 or higher on Mathematics	480 or higher on Evidence-Based Reading & Writing or 25 on the Reading test
GED – College Readiness	Reasoning through the Language Arts 165 or higher	***Quantitative Reasoning:*** 165 or higher ***College Algebra:*** 175 or higher ***Calculus:*** N/A	Reasoning through the Language Arts 165 or higher
KYOTE Test Scores	6 or higher on Writing	***Quantitative Reasoning:*** 22 on College Readiness Mathematics ***College Algebra:*** 14 or higher on College Algebra ***Calculus:*** 15 or higher on Reading	20 or higher on Reading

Tests	English	Mathematics	Reading
PARCC	4 or higher on English Language Arts/Literacy	***Quantitative Reasoning:*** 4 or higher on Mathematics ***College Algebra:*** N/A ***Calculus:*** N/A	4 or higher on English Language Arts/Literacy
Smarter Balance	Level 4 on English/Language Arts	***Mathematics (Quantitative Reasoning):*** Mathematics 4 or higher ***College Algebra:*** N/A ***Calculus:*** N/A	Level 4 on English Language/Arts
Compass Test Scores (no longer administered)			76 or higher on Reading
ALEKS PPL		***Quantitative Reasoning:*** 30 or higher ***College Algebra:*** 46 or higher ***Calculus:*** 76 or higher	

WKU places students in advising tracks and first-year courses according to their readiness needs and declared major upon entry. This process ensures incoming students are advised and placed in the appropriate level course to maximize their success.

College Readiness Standards Placement
The College Readiness standards are implemented through placement exams that provide advisors the additional information necessary to place students in supplemental, co-requisite, or development courses as needed for academic success.

The following placement exams are accepted at WKU (COMPASS, ACCUPLACER, KYOTE, WKU's Math Placement Exam, GED College Readiness, PARCC, and Smarter Balance). If standardized test scores are not available, English and Reading placement is completed during the TOP orientation program, while Math placement is completed in advance of Topper Orientation Program (TOP) (student will receive information upon registering for TOP). For Math placement, students are permitted one retake of the Math Placement Exam (MPE once) during a one year period.

The retake does not change the original test expiration date (one year from the original test date) and must be taken in a proctored environment. MPE retakes are administered by WKU's DELO Testing Centers (http://www.wku.edu/testing/) or by WKU's Mathematics Testing Center (270-745-2141). Appointments are strongly recommended. Students must contact the WKU Testing Center at 270-745-5122 to request remote testing.

Supplemental or Co-Requisite courses are required for students who do not meet the required College Readiness Standards but have scores that exceed placement into developmental courses. Supplemental/Co-requisite courses are credit bearing courses that count toward graduation and are calculated in the GPA. These courses may require additional class meetings each week (enhanced) or be a separate class. For supplemental course placement cut-off scores see: http://www.wku.edu/getready/course_placement_info.php.

The following supplemental courses are available at WKU:

- English
  - ENG 100/SUS 099C: Introduction to College Writing (3 credit hours) / Supplemental Writing Lab (1 credit hour) *Please note, students qualifying for SUS 099C will be placed in special sections of ENG 100)
  - English 100 (4x week): Introduction to College Writing (3 credit hours)
- Mathematics (enhanced)
  - MA 109C: General Mathematics (3 credit hours)
  - MATH 112: Problem Solving and Mathematics Skills for Teachers (3 credit hours)
  - MA 115C: Applied College Algebra (3 credit hours)
  - MA 116C: College Algebra (3 credit hours)
- Reading
  - LTC 199C: Reading: Evidence & Argument (3 credit hours)
  - LTCY 199: Reading: Evidence & Argument (3 credit hours)

Developmental courses are required for students who do not meet the College Readiness Standards, and have placement exam scores below the supplemental course standards. The course number for developmental courses begin with a zero course number (i.e., 051C or 096C) and do not apply toward graduation, but the credit hours do count toward enrollment status for purposes of financial aid eligibility and full-time student status. Students transferring to Western Kentucky University with an Associate of Applied Science, Associate of Arts, Associate of Science, or equivalent, from an accredited postsecondary institution will be considered proficient in the two basic skill areas of English (writing) and mathematics. For developmental course placement cut-off scores see: https://www.wku.edu/getready/course_placement_info.php.

The following developmental courses are available at WKU:

- **Developmental English**
  - DENG 051C: Writing for Non-native English Speakers (3 credit hours)
- **Developmental Algebra**
  - DMA 096C: Intermediate Algebra (4 credit hours)

NOTE: A math requirement by major chart is available to provide guidance on the exact course needed for each undergraduate major at WKU: http://www.wku.edu/getready/documents/new_math_placement_472017.pdf

It is recommended, that students requiring multiple developmental courses limit their registration in these courses to two in their first semester. This allows students to enroll in an array of credit-bearing courses to complete their schedule and thus make tangible progress toward their degree in their first semester of enrollment. Students with any academic deficiencies are required to enroll in and successfully complete with a grade of "C" or better all necessary developmental courses during their first two semesters at WKU.

These developmental courses do not contribute to the credits required for graduation and are not calculated in the GPA, however grades are factored into students' academic standing. Our developmental program areas and academic support units provide students with the best opportunity to learn mathematics, reading, and writing skills needed to be prepared for college level courses in those areas.

Topper Orientation Program

Ashlee Manley, Manager of Orientation and Admission Events
Potter Hall, Room 110
Phone: (270) 745-4242
Website: http://www.wku.edu/top
http://www.wku.edu/toponline

The Topper Orientation Program (TOP) is a required orientation for all new degree-seeking undergraduate students attending WKU. TOP helps new students become familiar with WKU, take placement exams, learn about campus programs and activities, meet with an academic advisor, and register for classes. An optional parent and guest program runs simultaneously on most TOP dates for parents and guests of students who attend. Students must be officially admitted to the university to be eligible to register for TOP. Once admitted, students will receive information via email from TOP on how to schedule a date. *There is a non-refundable fee for students and guests.*

Freshman TOP is a one-day orientation that takes place on WKU's main campus in Bowling Green. All first-year students are required to participate throughout the one-day program to be registered for classes. Students who arrive late or leave early must reschedule for another date. A variety of fall semester TOP dates are available in April, May, June, July, and August. Students planning to begin coursework in the spring semester may attend the program in late January. TOP dates are available on a first come, first served basis, and reservations must be made online at least four business days before the preferred date. Reserve space early as dates often fill to capacity.

TOP Online is a required program for transfer students with at least 24 earned hours from another accredited post-secondary institution. TOP Online provides information regarding what to expect as a transfer student. This includes policies, procedures, academic departments, student services, and more. All transfer students are **required** to complete TOP Online in order to register for classes. Once students have successfully completed the TOP process, they are able to contact an advisor and receive assistance with choosing and registering for classes via phone, email, or in person.

Students planning to attend **a regional campus location** (Elizabethtown/Ft. Knox, Glasgow, or Owensboro) are not required to participate in the programs above. Please contact your regional campus location for registration details.

An additional required orientation for newly enrolled **international students** is conducted by the International Student Office. Contact ISO at iso@wku.edu for additional information.

Please visit www.wku.edu/top or www.wku.edu/toponline for more information on these programs. You may also contact us at (270) 745-4242 or top@wku.edu.

Advising and Career Development Center

Christopher Jensen, Assistant Vice President
Downing Student Union; 2nd floor
Phone: (270) 745-5065, Fax: (270) 745-5421
Email: academic.advising@wku.edu
Website: www.wku.edu/advising

The Advising and Career Development Center is one of the most visible examples of WKU's investment in undergraduate student success. Housed in the Downing Student Union, the ACDC provides academic advising, retention services, learning resources, and career development to support student success and persistence to graduation. ACDC places a strong emphasis on undergraduate advising, including specialized services for transfer students, those exploring majors, and those in transition; while also offering free tutoring and programs to help undergraduate students be independent and successful learners. Training is also offered for advisors through the center.

Advising

The Advising and Career Development Center (ACDC) advisors and staff are knowledgeable about every undergraduate program offered on the WKU campus. The Center coordinates academic advising activities among undergraduate and academic departments for undergraduate students, and all degree-seeking undergraduate students must meet with an academic advisor prior to registering for classes each semester. The academic advisor assists the student in the selection of courses that will provide appropriate preparation for his/her career objectives and assures timely completion of degree program requirements. Academic advisors at WKU will also provide guidance regarding academic resources, internship possibilities, and key information for student success while working toward graduation.

Generally, students with fewer than 60 hours of college credit, including transfer students, will be assigned an ACDC advisor who works closely with academic colleges. Students with a declared major work closely with 60 hours or above will be assigned an advisor from the academic department that administers their particular program of study. Students can find their advisor's contact information on TopNet or by contacting ACDC at (270) 745-5421.

The Exploratory Program

ACDC specifically services undergraduate students that have not selected a major and are exploring their options. The Exploratory Program advisors lead students on a path of self-discovery, as they work to identify areas of interest, individual strengths, and career goals that align with one or more academic areas of study. These students explore the wide array of majors and minors WKU has to offer, and are able to make well-informed decisions regarding their academic and career options. Students who utilize this program also cultivate non-academic, executive functioning skills to support persistence to graduation.

An undergraduate student who has not selected a major (an Exploratory student) is advised by the staff of the ACDC (can continue as an Exploratory student up to 60 credit hours). A student can be general Exploratory or Exploratory within one of the five academic colleges.

Best Expectation Programs (BEP)

Best Expectations Programs (BEP) targets academically-at-risk students on probation with programs to increase persistence through structured support. Students on academic probation are required to attend BEP workshops. BEP works with students to identify realistic academic goals, as well as address other academic and non-academic concerns. BEP provides students with workshop opportunities, and tutoring services through The Learning Center. Ultimately, the efforts of BEP will encourage student persistence, and assist them in successful degree completion from WKU.

The Learning Center (TLC)

Downing Student Union; Room 1082
Phone: (270) 745-5816
Email: tlc@wku.edu
Website: www.wku.edu/tlc

The Learning Center (TLC) is a service division within the ACDC. The mission of TLC is to promote student success, enhance student performance, and increase student persistence at WKU. TLC helps students become better learners by providing tutoring, workshops, and outreach services. All services of TLC are offered at no cost to WKU students. Students may utilize the study space for individual study needs, use the computer lab to complete academic coursework, or request a tutoring appointment for assistance with difficult course concepts. TLC also facilitates Peer Assisted Study Sessions (PASS) for students enrolled in challenging courses. PASS consists of bi-weekly group study sessions to reinforce key concepts and promote independent learning.

The ACDC encourages students to utilize these services as a source of academic support. TLC helps students enhance their academic performance and sharpen their skills to be successful WKU graduates.

Transfer Center

Downing Student Union; Room 2135
Phone: (270) 745-2178
Email: transfer@wku.edu
Website: www.wku.edu/transfer

The Transfer Center is a service division within the ACDC. The mission of the Transfer Center is to assist prospective transfer students in completing the transfer process and enrolling in baccalaureate and associate degree programs on all WKU campuses. The Transfer Center serves incoming and prospective transfer students providing them with course articulation and academic advising. The Transfer Center will work with students from all institutions to provide accurate academic advising to ensure an easy transition to WKU and timely completion of their degree. In addition to helping students, the Transfer Center serves as a contact and support center for faculty and staff at WKU in regards to all things transfer. International Transfer students are encouraged to visit the International Student Office on the 3rd floor of the Dixie and Peter Mahurin Honors College/International Center or email at: iem@wku.edu

Refer to the Academic Information section entitled "Transfer of Credits" in this catalog for more information on transfer policies. The WKU transfer website also provides excellent information, including course-by-course transfer equivalency articulations: http://www.wku.edu/transfer/

Registration and Student Academic Records

University Registrar
Potter Hall, 2nd Floor
Phone: (270) 745-3351; Fax: (270) 745-4830
Email: registrar@wku.edu
Website: www.wku.edu/registrar

The Office of the Registrar provides a variety of academic services to the university community.

Degree Certification and Commencement

The Office of the Registrar is responsible for determining all degree requirements have been met.

Two commencement ceremonies are held annually. A May ceremony recognizes students who complete all degree requirements at the end of the spring semester or who demonstrate all requirements can be fulfilled during the summer term. A ceremony is held in December for students who complete all degree requirements at the end of the fall semester.

Enrollment Verification

The Office of the Registrar provides enrollment verification services to students and external agencies.

Name and Address Changes

Biographical/demographical information about each student is collected and updated through this office. It is the responsibility of each student to keep the Office of the Registrar informed of the correct local, permanent and billing address; changes may be made on-line through TopNet. A name change will be processed based on the marriage certificate, divorce decree, court order, birth certificate, and/or passport that verifies the correct name; changes must be submitted in writing to this office.

Registration

Registration services and drop/add activities are available through TopNet. TopNet, which is accessed using a personal identification number, can also be used to access the student's class schedule and to obtain grades at the end of each term. Details regarding registration policies and procedures are published in the Registration Guide each term and are available on the Office of the Registrar website at www.wku.edu/registrar.

Student Academic Records

The Office of the Registrar is the permanent repository for the official academic record of each student. Online access to academic records is secured through the use of a WKUid and password and in accordance with the Family Educational Rights and Privacy Act. Electronic academic records are backed up nightly, and all permanent academic records created prior to 1990 are backed up with both microfilm and digital imaging. Official transcripts are released only upon written request from the student. Information about transcript requests is available on the Office of the Registrar website at http://www.wku.edu/registrar/transcript_request.php. A $10.00 fee is charged for an official transcript.

Expenses and Fees

Belinda Higginbotham, Bursar
Potter Hall, Room 208
Phone: (270) 745-6381; Fax: (270) 745-6584
Email: billings.receivables@wku.edu
Website: http://www.wku.edu/bursar

Ms. K. Ann Mead, Senior Vice President for Finance and Administration
Potter Hall, Room 435
Phone: (270) 745-2434

Tuition and Fee Schedule

UNDERGRADUATE	FULL-TIME	SUMMER/WINTER TERM AND PART-TIME PER CREDIT HOUR
Resident	$ 5301.00	$ 442.00
Military Veteran/Dependent Resident	$ 5301.00	$ 442.00
Non-Resident (Domestic)	$13,248.00	$1,104.00
International	$13,572.00	$1,131.00
TUITION INCENTIVE PROGRAM		
Undergraduate	$6,876.00	$ 573.00
DISTANCE LEARNING COURSE (Note A)		
Undergraduate		$ 530.00
Active Military (Per Credit Hour)		$ 250.00

Full-time students are undergraduates who enroll in 12 hours or more of coursework during Fall and Spring terms. The full-time tuition rate applies to undergraduate students taking 12-18 credit hours (either exclusively on-campus or a combination of on-campus and distance learning). Full-time undergraduate students will be assessed an additional per credit hour fee equivalent to the per hour tuition rate for course loads exceeding 18 hours a semester.

Full-time undergraduate students enrolled in both on campus and distance learning courses will be assessed an additional Distance Learning Course Fee per credit hour for each distance learning credit hour in which they are enrolled. The Undergraduate Distance Learning Course Fee is $150.00 per credit hour for the Fall 2018 semester.

Note A: The Distance Learning course rate is for all part-time students, regardless of residency, enrolling in on-line, web-based courses. Students enrolled exclusively in distance learning courses will be assessed the distance learning per hour rate regardless of the number of hours enrolled. There is no full-time distance learning rate.

Included within the above rates are a $218 Student Athletic Fee, $62 Student Centers Fee, $70 Downing Student Union renovation fee, and $30 Parking Structure Fee, Creason. The fees are prorated to part-time undergraduate students on a per hour basis. These fees do not apply to the Distance Learning rates.

***Quoted tuition and fees are based on the projected Fall 2018 semester rates and are subject to change by the Kentucky Council on Postsecondary Education or Western Kentucky University. Refer to the Tuition and Fees website at www.wku.edu/bursar for current rate information.**

Other Expenses (Per Semester)

Meals (Approximately) $1,526 – 2,045
WKU has numerous eating facilities available. See the section on food service facilities for more information on food services and meal plans.

Textbooks/Course Materials
The cost of course materials vary, but an average of $30 per credit hour is usually close. Course materials also vary in cost based on their format - traditional books (new and used), rental books, and e-books. The WKU Store offers all formats, specializing in affordable used books and custom, non-traditional formats.

Visit www.wkustore.com to determine your course material needs. In-store or online, The WKU Store is your best choice because they get it right the first time. For accuracy, convenience, and best savings, enroll in The WKU Store Textbook Reservation Program, available through TopNet for Fall and Spring semesters.

Personal
Students should also make budget allowances for miscellaneous personal expenses and travel that will vary greatly depending upon individual habits and needs but are estimated to range from $300 to $600 per semester.

Rooms Per Semester
Throughout our 16 residence halls are a variety of living options including community bath, suite-style rooms and rooms with private baths. The majority of rooms in the residence halls are designed for double occupancy. The cost for these rooms for the 2018-2019 academic year ranges from $2,245 to $2,807 per semester. Rates are per student, double occupancy. On-campus housing is also available for summer term at a double occupancy rate of approximately $135 per person for each week in residence. Please contact the Department of Housing and Residence Life for additional information or visit their website at www.wku.edu/housing.

Program Expenses in College of Health and Human Services

Students enrolled in the College of Health and Human Services programs should consult with the appropriate department/school about potential expenses required for program completion; for example, some students may be required to undergo criminal background checks and drug testing and to provide proof of health insurance, liability insurance and/or immunization records prior to participating in any required experiences at selected off-campus facilities/agencies. Additionally, there may be certifications, training seminars or other requirements specified by the facility/agency that a student must meet in order to be eligible for field or practical experiences at the facility. It is the responsibility of the student to ensure that all institutional and/or facility requirements are met as a condition of participating in the on- or off-campus experiences; students may be responsible in part or in full for any costs incurred to meet such requirements. Students are also responsible for transportation to and from off-campus experiences. In some CHHS programs, the students are responsible for rental fees for clinical instruments and supplies, purchasing uniforms, equipment and possible course and program fees above the regular tuition. (For example, a per semester program fee will be assessed to students enrolled in the BSN pre-licensure program.) At the completion of the program, students may also be responsible for fees related to national and regional licensing exams. These requirements vary across programs within the college.

Course Fees

Occasionally, an additional fee is charged to a specific course. Refer to the Course Fees chart on the Tuition and Fees Website at www.wku.edu/bursar for specific courses and related fees.

Schedule Change Fee

A $50 schedule change fee will be assessed per course for student-initiated schedule changes. Effective dates for the fee are printed in each term's Registration Guide available online at www.wku.edu/registrar.

Late Registration Fee

Students who register for classes beginning the first day of a term will be assessed a $50 late registration fee.

Fees for Auditing Courses

All students who audit a course are charged the same tuition and fees they would pay if they took the course for credit.

Application for Graduation Fee

Candidates for the associate and baccalaureate degree will be charged a fee of $50. This fee will cover the cost of cap and gown, diploma and other necessary expenses. The graduation fee must be paid and the Application for Graduation must be filed after 90 hours are earned for baccalaureate degree students and after 45 hours are earned for students pursuing associate degrees. Candidates for a certificate will be charged a fee of $15. Contact the Office of the Registrar at registrar@wku.edu or (270) 745-3351 for additional information.

Transcript Fee

A $10.00 fee is charged for an official transcript. Official transcripts may be ordered through the Office of the Registrar or the National Student Clearinghouse; additional information is available at: www.wku.edu/registrar/transcript_request.php.

Parking and Transportation Services
www.wku.edu/transportation
transportation@wku.edu

Parking and Transportation Services issues parking permits for vehicles on campus and provides a variety of additional transportation services. Free Topper Transit is available between locations on Main Campus, South Campus, and to various off-campus shopping destinations. PTS also provides disability para-transit services, Nextbus arrival information, airport shuttle service, discounted GO bg city bus passes, Enterprise CarShare program, bike share services, bicycle racks throughout campus, motorcycle parking, and ride matching services.

PTS encourages students to leave their cars at home as parking on Main Campus is limited. If you do have a car on campus, you will need to buy a permit. All parking lots are zoned for specific permits. Housing permits are for students living in a residence hall on campus. Commuter Permits are for students living off-campus. You will park in the zone that matches your permit. Permits may be ordered online at www.wku.edu/transportation. Main Campus permits are limited and sold on a first come, first served basis. A waitlist will be available for each lot after that permit sells out. Please follow us on Facebook, Twitter, and YouTube.

Fee Payment

All tuition, housing fees, course or laboratory fees, meal charges, and other assessments are due and payable in accordance with the statements rendered by the appropriate university office.

Tuition, housing fees, meal plans and other student charges must be paid on the date a student registers or on other dates as specified by the Office of Billings and Receivables. Payment of fees will not be deferred, unless the student participates in one of the approved payment plans as described below.

The University expects the students to be financially responsible and not be delinquent in financial obligations to the University or to any department or division of the University. If a student registers and decides not to attend, the student must withdraw from all classes prior to the first day of classes on TopNet or by notifying the Office of the Registrar in writing to ensure that the student will not owe tuition and late payment fees and receive "F" grades. The student is responsible for his or her own enrollment status. A student who fails to meet a financial obligation by the due date of the notice from the appropriate university official will be subject to regulations promulgated by the University. If the student does not settle the obligation by the date designated on the notice, the appropriate business office shall notify the University Registrar. After the University Registrar has been notified that a student is delinquent, the University Registrar shall not allow the student to register or to obtain an official transcript or diploma until the University Registrar has been notified that the obligation has been settled.

The University expects all students to register for classes and pay tuition prior to the first day of class. A late payment charge of $100 may be assessed for failure to pay by the designated due date. **Failure to receive a bill does not relieve the student of the obligation to pay tuition and fees by the due date.** The University does not mail printed billing statements. All billing is electronic with students receiving notifications through their university-assigned e-mail addresses. As an added service, students can also select a billing e-mail address via TopNet so they can have their account statements sent to an additional e-mail address.

In the event that any tuition, fees and/or expenses are not paid when due, and the University undertakes collection of any unpaid portion, the student shall also be assessed and be responsible for any collection costs and/or fees associated with the collection of the debt including but not limited to: collection agency fees, which may be based on a percentage at a maximum of 33.3% of the debt, reasonable attorney's fees, court costs and all other charges allowed by law. Delinquent accounts receivable are placed with a collection agency and/or the Kentucky Department of Revenue and collection fees will be added, increasing the amount owed. Accounts will also be reported to the National Credit Bureaus.

Payment Options
Payments must be made in US dollars drawn on a US bank. WKU will accept cash, check, or money order in the Billings and Receivables Office, Room 208, Potter Hall.

All checks should be made payable to: Western Kentucky University.

Mailing Instructions. Always return the bottom portion of the invoice. The University uses a bank-processing center in Charlotte, North Carolina for faster processing.

Mail check payments to:
Western Kentucky University
P.O. Box 890784
Charlotte, NC 28289-0784

Payments being sent by overnight/express (such as Fed-Ex, etc.) should be sent directly to:

Billings and Receivables Office
Western Kentucky University
1906 College Heights Blvd #11022
Bowling Green, KY 42101-1022

Mail the bottom portion of your invoice with your check or money order. Please make sure your student identification number is written on the check or money order. Always allow at least seven to ten business days when paying by mail. Please do not mail cash.

Credit Cards
Because of high service and processing costs, the Billings and Receivables Office at WKU does not accept credit cards as a method to pay student account charges such as tuition, fees, room and board. We believe the savings realized by the University can be better utilized for academic endeavors. Credit cards will continue to be accepted at campus locations other than the Billings and Receivables Office.

We have contracted with Tuition Management Systems (TMS) to allow students to pay their bill with a Visa, Master Card, Discover or American Express credit card for a convenience fee of 2.75% of the amount of the payment.

To make a credit card payment with a convenience fee online, visit Tuition Management Systems at wku.afford.com. Scroll down to "Make a One-time Payment," choose Western Kentucky University, and then click on "Make a One-Time Payment." Note: You will be prompted to enter your WKU Student ID Number.

You can make a credit card payment with a convenience fee via telephone by contacting TMS at 800-722-4867. (Note: At the menu, please press 3.)

Electronic Payments
To make an electronic payment from your checking or savings account without a convenience fee. Visit Tuition Management Systems at wku.afford.com, scroll down to "Make a One-time Payment", choose Western Kentucky University, and then click on "Make a One-Time Payment." Note: You will be prompted to enter your WKU Student ID Number. You can make an e-check payment via telephone by contacting TMS at 800-722-4867. (At the menu, press 3 to make a one-time payment.)

International Payments (Flywire)
Western Kentucky University has partnered with Flywire to offer an innovative and streamlined way to make a payment from your home country. Founded by a former international student, Flywire's mission is to save money for international students and their families that would otherwise be lost on bank fees and unfavorable foreign exchange rates.

With Flywire, international students receive the following benefits:

- excellent foreign exchange rates, allowing payments to be made in a student's home currency (generally).
- payment tracking through the transfer process via a student dashboard.
- email confirmation when payment is received by the school.
- fast and secure payments.
- assurance that the exact payment amount sent is the same amount received by the University (no hidden bank fees).
- Options may include bank transfer, debit/credit card in your home currency, electronic payment, or other local options.

Flywire Customer Support Information:

Phone: (617) 207-7076
US Toll-Free: 1-800-346-9252
Email: support@Flywire.com
Web: https://www.Flywire.com/help

No matter your time zone, Flywire will have a dedicated multilingual customer support team available to you via live chat, email and phone to answer any of your questions.

Depository
Your payment may be placed in the depository located outside of the second floor entrance of Potter Hall. Always include the bottom portion of your invoice statement with your check or money order when using the depository. It is important that your student identification number is written on the check or money order. Please allow two to three business days for depository payments to post to your account. Please do not place cash in the depository.

Payment Plans
Western Kentucky University offers interest-free monthly payment plans through our partnership with #1 rated Tuition Management Systems (TMS). Students and their parents have the option of choosing a semester payment plan for the current semester in which the student is enrolled. Payment plans are not available for the winter or summer terms.

For the Fall 2018 semester, we will offer the following interest-free payment plans.

5-pay - Payments due June 1, July 1, August 1, September 1, and October 1.
4-pay - Payments due July 1, August 1, September 1, and October 1.

For the Spring 2019 semester, we will offer the following interest-free payment plans.

5-pay – Payments due November 1, December 1, January 1, February 1, and March 1
4-pay – Payments due December 1, January 1, February 1, and March 1

Enrollment Fees for the Payment Plans: A non-refundable application fee of $45 is required for each semester payment plan enrollment. This fee must be included with the completed enrollment form with TMS. The payment plan enrollment includes personal account service, automated account information 24 hours a day, access to your account through their web site, wku.afford.com, and even gives you a chance to win a $5,000 Tuition Management Systems Scholarship. Visit Tuition Management Systems online at wku.afford.com or call 800-722-4867 for more information on payment options, free education payment counseling and the many ways they can help you afford education.

If you need additional assistance or wish to contact the University about these matters, please contact the WKU Billings and Receivables Office at (270) 745-6381.

Refunds via BankMobile Disbursements – The "ONLY" Way to Select How You Will Receive University Refunds

Western Kentucky University has partnered with BankMobile Disbursements to deliver financial aid refunds and other credit balances to students. All refunds are disbursed through BankMobile Disbursements. Upon registration, students will be mailed a unique personal code in a bright green envelope. Students will use the unique personal code to select their refund preference.

Refunds are delivered to students by the option that they choose when selecting their refund preference at www.refundselection.com:

1. Electronic deposit to an existing bank account of your choice.
2. Electronic deposit to BankMobile Vibe, an optional account.

The University will not issue refund checks, so students must choose an option for receiving any refunds due to them. The funds are sent from the university to BankMobile Disbursements who then disburses the refunds according to the choice a student has made during the selection process. For questions about the refund selection process, please contact the Card/Collections Office at (270) 745-5551.

Tuition and Fee Refund Policy

A refund of tuition shall be made if a student officially withdraws or is dismissed from the University during the first three weeks of a regular semester. Tuition refunds or reductions in outstanding fee liabilities for students who officially withdraw through TopNet or the Office of the Registrar, or who change their status from full-time to part-time or further reduce their part-time status through drop/add, will be made according to the following schedules:

Fall and Spring Semesters	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 6 days of classes	100%
From the 7th day of class through the end of the second week	50%
Through the end of the third week	25%
No refund after the third week of classes	

Fall and Spring Bi-Term Classes	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 3 days of classes	100%
4th and 5th days of classes	50%
6th and 7th days of classes	25%
No refund after the 7th day of classes	

Winter Term 3-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 2 days of classes	100%
3rd day of classes	50%
No refund after the 3rd day of classes	

Summer 13-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 5 days of classes	100%
6th through 8th days of classes	50%
9th through 12th days of classes	25%
No refund after the 12th day of classes	

Summer 8-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 3 days of classes	100%
4th and 5th days of classes	50%
6th and 7th days of classes	25%
No refund after the 7th day of classes	

Summer 7-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 3 days of classes	100%
4th and 5th days of classes	50%
6th and 7th days of classes	25%
No refund after the 7th day of classes	

Summer 6-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 3 days of classes	100%
4th day of classes	50%
5th day of classes	25%
No refund after the 5th day of classes	

Summer 5-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 3 days of classes	100%
4th day of classes	50%
5th day of classes	25%
No refund after the 5th day of classes	

Summer 4-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 3 days of classes	100%
4th day of classes	50%
No refund after the 4th day of classes	

Summer 3-Week Session	
Official Withdrawal Period	***Tuition Refund Percentage***
Through first 2 days of classes	100%
3rd day of classes	50%
No refund after the 3rd day of classes	

The refund percentage is applied to the number of credit hours dropped, not the dollar amount of tuition and fees assessed.

Course fees are non-refundable after the 100% refund period.

****The refund policy is subject to change based upon federal regulations or by Western Kentucky University without prior notice.***

Financial Assistance

Cindy Burnette, Director
Department of Student Financial Assistance
Potter Hall, Office 317
Phone: (270) 745-2755
Email: fa.help@wku.edu
Website: www.wku.edu/financialaid/

The Department of Student Financial Assistance is dedicated to assisting academically capable students with sufficient resources to enable them to meet their educational costs. The major purpose of financial aid is to supplement, rather than to replace, family and student resources.

The Financial Aid Programs listed below require the student to make satisfactory academic progress toward a degree.

TYPE OF AID	QUALIFICATIONS	REQUIRED FORMS
GRANTS		
Federal Pell Grant	U.S. Citizen, Financial Need, 1st Undergraduate Degree	Free Application for Federal Student Aid (FAFSA)
College Access Program (CAP)	U.S. Citizen, Kentucky Resident, Minimum of 6 Hrs., 1st Undergraduate Degree	Free Application for Federal Student Aid (FAFSA)
Federal Supplement Educational Opportunity Grant (SEOG)	U.S. Citizen, Pell Grant, High Need, Minimum of 6 Hrs., Priority given to F/T students	Free Application for Federal Student Aid (FAFSA)
Federal Teacher Assistance for College and Higher Education Grant (TEACH)	U.S. Citizen, eligible for admission to WKU Teacher Education Program, minimum GPA of 3.25, sophomore, minimum of 1 hour	Free Application for Federal Student Aid (FAFSA)
LOANS		
Federal Perkins Loan	U.S. Citizen, Minimum of 6 Hrs., Priority given to most needy F/T Undergraduate Note: Limited funding; program is being discontinued.	Free Application for Federal Student Aid (FAFSA)
Federal Direct Stafford Loan (subsidized)	U.S. Citizen, Minimum of 6 Hrs., Need based	Free Application for Federal Student Aid (FAFSA)
Federal Direct Stafford Loan (unsubsidized)	U.S. Citizen, Minimum of 6 Hrs., Non-need based	Free Application for Federal Student Aid (FAFSA)
Federal Direct Parent Loan for Undergraduate Students (PLUS)	U.S. Citizen, Non-need based	Free Application for Federal Student Aid (FAFSA) Separate Application
STUDENT EMPLOYMENT		
Federal College Work-Study Program	U.S. Citizen, Need based, Minimum of 6 Hrs.	Free Application for Federal Student Aid (FAFSA)
America Reads Program	America Reads Eligibility, U.S. Citizen Need based, Minimum of 6 Hrs.	Free Application for Federal Student Aid (FAFSA)
Community Service Program	U.S. Citizen, Need based, Minimum of 6 Hrs.	Free Application for Federal Student Aid (FAFSA)
Institutional Work Program	Non-need based	Free Application for Federal Student Aid (FAFSA)
The FAFSA is available at www.fafsa.gov.		

Application Priority Filing Dates
Fall Semester - As soon after October 1 as possible
Spring Semester - October 25
Summer Term - March 20

Winter and Summer Financial Aid
Limited funds are available for winter and summer terms in the areas of grants, loans and student employment. Students will be notified of eligibility by the Department of Student Financial Assistance after registering for their classes and will be notified via email of their award. With regard to winter term, aid will be tied to spring term for financial aid purposes.

Payments of Awards
Financial aid Awards are normally made on an academic year basis conditional with fulfilling academic and registration requirements. Financial aid is disbursed after the 100% drop/add period for that term and is applied directly to tuition and fees, housing, meal plans and any other applicable charges. Awarded amounts in excess of institutional charges are made payable to the WKU Debit Card. Student employment wages are distributed every two weeks via the WKU Debit Card.

All first-time Stafford Loan recipients are required to complete an entrance counseling session and Master Promissory Note (MPN) prior to their loan funds being disbursed and an exit counseling session prior to graduation or withdrawing from the University. This can be done online at studentloans.gov.

Renewal Procedures
Financial aid awards are calculated on current financial information. Therefore, a new financial aid form must be filed each year. Students may apply online at www.fafsa.gov. Students will need an FSA ID in order to sign their FAFSA electronically; apply for a FSA ID at studentaid.gov/fsaid.

Academic Eligibility and Financial Aid
In the event that satisfactory academic progress is not maintained, financial aid funds must be withheld. If satisfactory academic progress has been re-established after successful completion of a semester, winter or summer term, the student may be considered for re-evaluation for financial aid. A student on academic probation is not making satisfactory academic progress. The SAP policy may be viewed at: http://wku.edu/financialaid/sap.php.

Other Assistance Programs
Kentucky Educational Excellence Scholarship (KEES)
KEES is a program administered by the Kentucky Higher Education Assistance Authority. Kentucky high school students who earn 2.5 or better while in high school can qualify for KEES scholarship while enrolled in an institution of higher education. Students can retain this scholarship for 8 semesters while in college by maintaining the required GPA and remaining on track to graduate.

Dependents of War Veterans
Dependents and spouses of Kentucky Disabled War Veterans may be eligible for a Waiver of Tuition through the provisions of KRS 164:505-515 in any state-supported institution of higher education. Eligibility for the Waiver of Tuition may be determined by making application to the Kentucky Department of Veterans Affairs, 545 South Third St., Louisville, KY 40202.

Veterans Educational Benefits
Most of the programs offered by Western Kentucky University have been approved by the Kentucky Approving Agency for Veterans Education for persons eligible to receive VA educational benefits. There are several categories of educational benefits for eligible students including Montgomery GI Bill, Chapter 30 (active duty), Chapter 33 (Post 9/11), Chapter 1606 and 1607 (reserve/national guard), Chapter 35 (Dependents Educational Assistance Program), Chapter 32 (Veteran's Educational Assistance Program) and Chapter 31 (Vocational Rehabilitation). Questions regarding eligibility for Chapters 30, 32, 33, 35, 1606 and 1607 educational benefits should be directed in writing to the VA Regional Office, PO Box 32432, St Louis, MO 63132-0832 or by calling toll free (888) 442-4551. Chapter 31 questions should be directed to the VA Regional Office, 321 West Main St., Suite 390, Louisville, KY 40202, or by calling (800) 827-1000. Contact the Veterans' Affairs Office at (270) 745-3732 for assistance in using/applying for these benefits at Western Kentucky University.

Vocational Rehabilitation
Students with a physical disability may qualify for assistance to help meet the costs of attending college. Students should apply for this aid through the nearest Vocational Rehabilitation Office to the student's hometown.

Note: The information presented here is accurate as of the date of publication. The University reserves the right to amend as necessary due to changes in federal, state, and/or institutional programs.

Academic Scholarships
Scholarship information indicated below pertains to the 2018-2019 academic year. Additional scholarship information can be found at https://www.wku.edu/scholarship/.

Beginning Freshmen
Academic scholarships are awarded based on academic achievement (GPA, rank in class and ACT/SAT scores), participation in extracurricular activities and leadership. To receive full consideration for University merit scholarships, students must apply for admission to WKU and submit an official high school transcript and ACT/SAT score by February 1st. Students can apply for additional scholarship opportunities at https://www.wku.edu/topdollar/.

The University's most prestigious award is the Cherry Presidential Scholarship. This scholarship is based on academic achievement (3.8 unweighted GPA, 31 ACT / 1360 SAT), supplemental essays, letters of recommendation and a formal interview process. The Cherry Presidential Scholarship is renewable for up to four years or graduation, whichever occurs first.

Academic Merit awards are offered to qualifying students with a minimum 3.3 unweighted GPA and a minimum 25 ACT (1130 SAT). Academic Merit awards are renewable for up to four years or graduation, whichever occurs first.

Scholarship awards are available for specific targeted groups. Additional information is available at https://www.wku.edu/scholarship-new/targetedawards.php.

Transfer Scholarships
Students with a minimum of 24 transfer hours from a regionally accredited institution and a minimum 3.5 cumulative GPA may qualify for WKU's Transfer Base Awards. Students who completed an Associate's degree within the last 2 years form a regionally accredited institution with a minimum 3.0 cumulative GPA may qualify for WKU's Transfer Targeted Award. Application information and deadlines can be found at https://www.wku.edu/financialaid/scholarships/transfer.php.

Returning Students
Students enrolled full-time at WKU may apply for an academic scholarship for the next academic year by applying online at https://www.wku.edu/topdollar/. The deadline for submitting the application is February 1st. The primary criterion is college academic achievement. For additional information, contact the Department of Student Financial Assistance, fa.help@wku.edu and 270-745-2755.

College Heights Foundation Scholarships
From the time the College Heights Foundation was chartered in 1923, its primary mission has been the administration of funds entrusted to its care by supportive alumni, corporations, organizations, and other friends for the purpose of helping deserving students obtain an education. CHF exists primarily to administer scholarships and aid worthy students enrolled at Western Kentucky University. The Foundation is governed by a Board of Directors made up of twelve prominent business and professional leaders who serve without remuneration. Dr. Donald Smith is President of the College Heights Foundation. It is a fully-qualified, tax-exempt organization under Section 501 (c) (3) of the Internal Revenue Code.

Please visit TOPDollar at http://www.wku.edu/topdollar, the WKU comprehensive scholarship source, to find out more about each of the scholarship funds, the donors who made them possible, and the way for current and potential students to apply for these private scholarship funds.

ROTC Scholarships
Students who are considering careers in the Army may be eligible to compete for two, three or four year scholarships offered through the Department of Military Science and Leadership. These scholarships may pay for the following:

- 100% Tuition and fees
- Books - $1200 a year
- Monthly stipend - $300 to $500 (increases as academic level increases)
- Room and board scholarship for those who maintain a 3.0 GPA or higher

For further information contact Brandon Smith at brandon.smith@wku.edu or call (270) 745-6054.

Those considering the Army National Guard or Army Reserves may be eligible for our Simultaneous Membership Program (SMP), which consists of:

- Tuition (75%-100%)
- Montgomery GI Bill ($364)
- SMP Kicker ($350)
- Drill Pay (E5) ($242)
- ROTC Stipend ($350-$500 monthly)

For more information contact SFC Eric Vincent (eric.vincent@wku.edu).

Senior Citizen Scholarships
Kentucky residents who are 65 years of age or older on or before the day the semester begins are granted Senior Citizen Scholarships for any college class in which they enroll for credit or to audit in accordance with KRS 164.284. For additional information, contact the Billings and Receivables Office at (270) 745-6381 or billings.receivables@wku.edu.

Tuition Incentive Program (TIP)
Western Kentucky University offers a Tuition Incentive Program (TIP) to qualified non-Kentucky students who are residents of specific counties in several states. Additional information regarding TIP is available at https://www.wku.edu/admissions/tip.php.

Tuition Incentive Program Scholarship (TIPS)
Students from TIP counties with superior achievement may receive an additional scholarship, the "Tuition Incentive Program Scholarship" (TIPS). Please visit http://www.wku.edu/admissions/tip.php for more information

Note: The Tuition Incentive Program (TIP) and the Tuition Incentive Program Scholarship (TIPS) are different. TIP is a tuition rate based on county of residence; TIPS is a scholarship based on academic qualifications applicable to students from TIP counties. Students from TIP counties are eligible for consideration for the TIP Scholarship. All TIP counties are determined by the WKU Board of Regents and approved by the Kentucky Council on Postsecondary Education (see: www.wku.edu/admission/tip.php).

Alumni Grant Scholarship
An Alumni Grant is available to any qualified nonresident student whose parent, stepparent or grandparent holds an associate, baccalaureate, masters, specialist, or doctoral degree or has completed a certificate program from Western Kentucky University. Tuition for qualified students will be the Tuition Incentive Program (TIP) rate.

For qualifications, requirements and procedures, students should contact the Department of Student Financial Assistance.

Housing & Residence Life

Dr. Mike Reagle, Assistant Vice President for Student Affairs and Director of Housing & Dining

Pam West, Director for Facilities
Lana Kunkel, Associate Director, Housing Operations
Minnette Ellis, Assistant Director, Housing & Residence Life
Blair Jensen, Assistant Director, Housing & Residence Life
Daniel Rosner Assistant Director, Housing & Residence Life

Southwest Hall, Room 18
Phone: (270) 745-4359
Email: hrl@wku.edu
Website: http://www.wku.edu/housing

The Department of Housing and Residence Life, in partnership with the student and the university community, will provide a premier living/learning experience that promotes student success. We offer 16 residence halls with a variety of living options to accommodate the needs and preferences of our student population. Several of the amenities include the following: cable television, Internet connections and wifi capability in each bedroom, and laundry facilities in each hall. Apartment living is also available to juniors, seniors and graduate students. Visit the website for more information. Leadership is provided in each hall by live-in professional staff members. Additionally, community advisors, resident assistants, and desk assistants work to provide services in the halls that include a 24-hour information/security desk operation.

Required Housing Policy

All full-time freshmen and sophomores are required to live on campus. Exceptions to this policy include students who are married, have dependent children, 21 years old or older, military veterans of 181 continuous days or more, commuting from their parents' permanent address (50 mile limit), sophomore fraternity or sorority members who are officers and are required to live in the chapter house, and special circumstances.

Housing Deposit and Fee Payment

The Residence Hall Housing Agreement requires an accompanying $150 deposit. This deposit will remain on file throughout the resident's term of occupancy and serves as a combination room reservation, damage, cancellation and room checkout deposit. It does not apply to the semester housing fee, and may be carried over to subsequent academic years.

Students who submit a Residence Hall Housing Agreement prior to the first day of classes for either fall or spring semester will be billed their appropriate housing fee by the business office. Payment must be made in full by the date specified on the bill.

Students who submit a Residence Hall Housing Agreement on or after the first day of classes for either the fall or spring semester agree to submit the $150 housing deposit to the Department of Housing and Residence Life. The full semester, prorated semester, or full bi-term housing fee is also payable at the business office at the time the Housing Agreement is submitted and accepted.

Cancellations and Refund Policy

The Residence Hall Housing Agreement is for the full academic year.

Students who submit written notice of cancellation to the Department of Housing and Residence Life prior to the beginning of the academic year may receive a partial refund of the advance deposit based upon the following dates:

- Cancellations received by July 1 for an agreement beginning fall semester or November 15 for spring semester only, students will receive 2/3 refund of deposit or $100.00.
- Cancellations received between July 2 and August 1 for an agreement beginning fall semester or between November 16 and December 15 for spring semester only, will result in a 1/3 refund of deposit or $50.
- For cancellations received after August 1 for fall semester or December 15 for spring semester only, students do not receive a refund of the advance $150 deposit. Exceptions to this policy include only those students who are denied admission to the University or not assigned due to lack of residence hall space.

HALL NAME	NUMBER OF FLOORS	MAXIMUM OCCUPANCY	ELIGIBILITY REQUIREMENTS
Men's Halls			
Douglas-Keen	7	240	None
Barnes-Campbell	9	382	Extended Living
McCormack	6	374	None
Hugh Poland	9	406	None
Women's Halls			
Bemis-Lawrence	9	382	None
Douglas-Keen	4	132	None
Gilbert	4	202	None
Pearce-Ford	27	858	None
Meredith	3	188s	Sorority
Rodes-Harlin	9	368	None
Co-Ed Halls			
Bates-Runner	3	148#	Upperclassmen-
Hilltopper	6	408#	Extended Living
McLean	3	126#	Upperclassmen
Minton	10	406	Honors
Northeast	3	300#	Upperclassmen, Extended Living
Southwest	3	300#	Upperclassmen-Honors
Zacharias	3	212s	Upperclassmen
12'X16' Approximate Room Size All halls are air-conditioned.			
s = Suites # = rooms with private bathrooms			

Residents who cancel their Residence Hall Housing Agreement at any time during the academic year, and subsequently continue full-time enrollment, will be assessed a $750 contract termination fee, will not receive any refund of their housing deposit and may be assessed housing fees for all applicable semesters. Requests for Exemption from the Contract Termination fee are available in the Department of Housing and Residence Life.

Extended Living

For the 2018-2019 academic year, extended living is offered at Barnes-Campbell Hall, Northeast Hall, and Hilltopper Hall, which allows students to remain in their rooms during the Thanksgiving, semester and spring break periods. All other halls close for these periods which makes this a good option for those who cannot travel during the breaks, need to work in town during breaks or need to be here for university-related activities.

Room Assignments

Room assignments are made based upon the date of receipt of the Housing Agreement. Returning residents who renew their housing agreement prior to the established deadline are given "priority status" and are reassigned first. Incoming freshmen and transfer students are assigned next based upon their date of receipt.

Although there are no guarantees, special consideration is given to the indicated preferences. Roommate preferences are made based on availability and mutual requests. It is recommended that residents wishing to room together should submit their Agreements together when possible.

Residence Hall Rooms

Residence hall rooms are equipped to accommodate two students and each room is furnished with beds, chests of drawers, bookshelves, closet space, desks and chairs.

Reservations

Students should forward the completed Residence Hall Housing Agreement with their $150.00 deposit immediately upon applying for admission to the University. Students may apply online through Topnet with credit/debit card or by mail with check or money order.

Completed Residence Hall Agreement forms should be sent to the Department of Housing and Residence Life, 1906 College Heights Blvd. #11093, WKU, Bowling Green, Kentucky 42101-1093. Make checks or money orders payable to Western Kentucky University.

Academic Information

Academic Requirements and Regulations

Course and Organizational Information

Division of the School Year—The academic year of Western Kentucky University is divided into two semesters consisting of sixteen weeks, a 13-week summer term, and a three-week winter term. The opening and closing dates are given in the Academic Calendar, which is published yearly. Specific information about the summer and winter terms is available at www.wku.edu/delo.

Unit of University Credit—The unit of credit is a semester hour.

Classification of Students—Beginning students are classified as freshmen; students with a minimum of 30 semester hours earned, as sophomores; 60 hours earned, as juniors; and 90 hours earned, as seniors.

Course Load—To be considered a full-time undergraduate student, one must carry a minimum of 12 hours each semester. Students who wish to enroll for 20-21 semester hours must have a cumulative grade point average of 3.3 or above.

Registration and Student Schedule Changes— After classes begin, registration for a full-time course load and/or changes in schedules may be made only within the first six class days of a semester or the first three days of a bi-term. Courses that do not meet at least twice during the first six class days may be added through, but not past, the day of the second class meeting.

During a semester, a student may withdraw from a course with a grade of "W" or "F" under the following conditions. It is recommended faculty members inform students of this "W" period deadline.

- A student is permitted to withdraw from any course with a grade of "W" through the midpoint of the semester. See the Academic Dishonesty section for exception information.
- After the midpoint of the semester, any student dropping a course receives an automatic "F." However, when there are extenuating circumstances, and at the discretion of the faculty member and the department head, the student may be permitted to withdraw with a "W" instead of "F."

During a bi-term, a student may drop a course with a grade of "W" or "F" under the following conditions:

- A student is permitted to withdraw from any course with a grade of "W" through the midpoint of the bi-term.
- After the midpoint of the bi-term, any student dropping a course receives an automatic "F." However, when there are extenuating circumstances, and at the discretion of the faculty member and the department head, the student may be permitted to withdraw with a "W" instead of "F."

Attendance Policy—Registration in a course obligates the student to be regular and punctual in class attendance. Students should make certain their names are on the class roll. If an error has been made in registration, it is the student's responsibility to see the error is corrected in the Office of the Registrar. It is the individual instructor's responsibility to inform students of the guidelines for implementing the instructor's attendance policy, in writing within one week of the start of the pertinent semester/term/summer session. Students who cease attending class are expected to report to the Office of the Registrar to initiate withdrawal procedures. Withdrawal deadlines are published each term in the Registration Guide.

Excessive absenteeism frequently contributes to poor academic achievement. An instructor who determines a student's absenteeism is inconsistent with the instructor's stated policy should either counsel with the student or request the Advising and Career Development Center arrange a counseling session with the student. Excessive absenteeism may result in the instructor's dismissing the student from the class and recording a failing grade, unless the student officially withdraws from the class before the withdrawal deadline. If the student withdraws from the university after the end of the official withdrawal period, excessive absenteeism may be one of the considerations in the instructor's deciding whether circumstances justify a "W" or an "F" in the course. The normal appeal process is available to the student who wants to appeal the decision of the instructor.

When a student is absent from class because of illness, death in the family, or other justifiable reasons, it is the student's responsibility to consult the instructor at the earliest possible time. Contact ACDC for guidance (270) 745-5065.The ACDC provides class attendance notification services as requested by students and faculty. When requested by students, notifications of absences resulting from personal emergencies are relayed to faculty. In addition to this official notification, it is the student's responsibility to contact each professor to make arrangements to complete missed assignments and tests. The ACDC also notifies students of excessive absences reported by faculty.

Students who, without previous arrangement with the instructor or department, fail to attend the first two class meetings of a course meeting multiple times per week or the first meeting of a class that meets one time per week MAY be dropped from the course. Nonattendance for a web-based course shall be defined as failure to perform meaningful academically-related activity (including, but not limited to, the following: submitting an academic assignment, taking an exam, participating in an online discussion about academic matters) within one week of the course start date without previous arrangements with the instructor or department.

Attendance Notification
The ACDC provides class attendance notification services as requested by students and faculty. When requested by students, notifications of absences resulting from personal emergencies are relayed to faculty. In addition to this official notification, it is the student's responsibility to contact each professor to make arrangements to complete missed assignments and tests. The ACDC also notifies students of excessive absences reported by faculty.

Military Absence Policy for Official Military Duties and Veteran Administration Medical Appointments ─ Instructors are expected to show flexibility to Military and Veteran students who have required absences due to military duties or Veteran Administration medical appointments. These absences are mandated and beyond the students' control. Instructors should not penalize absences of this type in any way. Accommodations and specific timeframes to make up all missed assignments, quizzes, and tests will be given and mutually agreed upon by the instructor and student. Students are responsible for notifying faculty members of absences as far in advance as possible, when possible, and for ensuring that their absence is documented. Absences can be verified by official orders, appointment notifications, or through the Office of Military Student Services. Students called to duty for an extended amount of time should be referred to the Military Withdrawal policy.

Auditing of Courses—An auditor enrolls and participates in a course without expecting to receive academic credit. The same registration procedure is followed, and the same fees are charged as for courses taken for credit. An audited course is not applicable to any degree or certificate program.

Regular class attendance is expected of an auditor. Other course requirements, which may be obtained in writing from the instructor, will vary depending on the nature of the course. Students interested in auditing a course should secure permission from the instructor and discuss course requirements prior to enrolling. Failure to meet course requirements may result in the auditor being withdrawn from the course at the request of the instructor. A successful audit will be recorded on the transcript with the designation AU.

Any change from audit to credit must be done by the last day to add a class. Changes from credit to audit must be done by the last day to drop a class with a grade of "W." Refunds for withdrawals from audited courses will be prorated on the same basis as refunds for withdrawals from courses taken for credit.

Global Studies Designation—WKU offers all students the opportunity to earn a Global Studies Designation as part of their undergraduate education. This designation may be combined with any major.

Students who complete the requirements outlined below will receive the "Emphasis in Global Studies" designation on their official transcript.

Requirements include:

1. Completion of a minimum of twenty-four (24) credit hours of coursework with substantial international content. More than 200 courses are approved to meet this requirement. Any of the approved courses can also be used to meet major, minor, or Colonnade requirements, as appropriate. As part of this requirement, the following conditions must also be met:
    a. No more than nine (9) credit hours may be counted from any one discipline.
    b. At least three (3) different departments must be represented.
    c. Students must achieve an overall minimum GPA of 2.5 in the international content courses in order to receive the "Emphasis in Global Studies" designation.
2. Completion of a minimum of six (6) credit hours of modern language, either six hours in one language or three hours each from two languages. *This requirement must be met in addition to the twenty-four hours of international content coursework above.*
3. Completion of an approved credit-bearing international learning experience that could include study abroad, an internship abroad, service learning abroad, research abroad, or international student teaching.

More information regarding the Global Studies Designation may be found at http://www.wku.edu/studyabroad/students/globalstudies.php. Students are encouraged to contact the Office of Study Abroad & Global Learning at study.abroad@wku.edu or (270) 745-5334 with any questions.

Undergraduate Student Enrollment in Graduate Courses—Undergraduate students at Western Kentucky University may request to enroll in graduate courses by submitting an "Undergraduate Taking Graduate Courses" form to The Graduate School. Conditions for approval include:

- at least 75 undergraduate credit hours earned; and
- a minimum cumulative GPA of 3.0

Undergraduate students may accumulate a maximum of 12 graduate credits. In addition, undergraduate students are restricted to a maximum of 15 hours enrollment per term, including graduate and undergraduate credits. All graduate coursework will be on the graduate transcript. To move the coursework to the undergraduate transcript students should contact the Office of the Registrar.

Schedule Changes by the University—The institution reserves the privilege at all times of canceling any course for which the enrollment is not sufficient to justify its continuation and to make any other adjustments in the schedule that seem necessary.

Changes in Offerings and Policies—The University reserves the right to make changes as required in course offerings, academic policies and other rules and regulations affecting students to be effective whenever determined by the University.

Academic Freedom—The University desires every student experience freedom in academic pursuits. Academic freedom, however, is not irresponsibility—it is the opportunity to pursue truth.

Grade-Related Information

Grade Point Average—The overall grade point average is defined as the ratio of the total number (including transfer work) of quality points to the total number of GPA hours attempted. The WKU grade point average is defined as the ratio of the total number of quality points to the total number of GPA hours attempted for courses taken only through Western Kentucky University.

Grade Recording—Grades are recorded by the Office of the Registrar as reported by the faculty at the end of each term. No grade filed in that office may be changed except via a written statement from the instructor certifying that an error has been made. All conditions must be removed before the student will be recommended for any certificate or degree.

Grade Reports—It is recommended that some graded evaluation be accomplished by the end of the first six weeks equal to at least 20% of the student's final grade. Final grades are accessible online through TopNet.

Developmental Course Grading—Courses numbered 050-099 are developmental courses; grades earned in these courses will not count toward the student's GPA, but shall be considered in determining eligibility for financial aid and academic probation status. Credit hours earned in developmental courses are not degree applicable.

Grading and the Quality Point System—Within one week of the start of the pertinent semester/term/summer session, the instructor will provide students a written statement of the factors to be considered in determining grades and the specific weight to be assigned to each of these factors. The letters A, B, C, D, F, P and X are used by the University to indicate the student's academic proficiency. These letters have the following significance:

A—Excellent, valued at four quality points per semester hour.

B—Good, valued at three quality points per semester hour.

C—Average, valued at two quality points per semester hour.

D—Below average, unsatisfactory, valued at one quality point per semester hour. (A "D" gives credit toward a degree. The student's overall grade point average, however, must be a 2.0 or better to meet the requirements for graduation.)

F—Failure, valued at no semester hours earned and no quality points.

FN— Failure due to nonattendance, or ceasing to attend, up to and including the 60% point of a term, valued at no semester hours earned and no quality points. Nonattendance shall be defined as failure to perform meaningful academically-related activity including, but not limited to, the following: submitting an academic assignment, taking an exam, participating in an online discussion about academic matters.

P—Pass, credit is awarded toward a degree, but no quality points are assigned. The "P" designation is restricted to specific courses approved for its use.

X—Incomplete. A grade of "X" is given only when a relatively small amount of work is not completed because of illness or other reason satisfactory to the instructor. A grade of "X" will automatically become an "F" unless removed within twelve (12) weeks of the next full term (summer term excluded.) An incomplete must be removed within this twelve-week period regardless of whether the student is registered for additional work in the next term. A student should work with the instructor who assigned the incomplete on an independent basis in order to complete the necessary assignments. A grade of incomplete is not used under any circumstances as a substitute for "F" or "W."

The designations AU, W, NR, ER, NG and IP are not included in the determination of grade point average and are used in the following cases:

AU—Auditor of a course (See "Auditing of Courses" for additional information.)

W—Officially Withdrew.

NR—No report. Grades for an entire class were not received by the Office of the Registrar in time for processing. The designation "NR" is not to be used as a grade for individual students.

ER—Error in reporting. This designation is used by the Office of the Registrar when a grade is not reported for an individual student.

NG—No grade. A grade is not appropriate to the course. The "NG" designation is restricted to specific courses approved for its use.

IP—In Progress. The IP designation is restricted to specific courses designed to span more than one term. Unless approved otherwise, an IP designation unresolved at the end of one year after its assignment will be converted to an "F."

Transfer work submitted will be equated to our internal scale and denoted as such on your record.

Repeating Courses—An undergraduate student is permitted to repeat a maximum of six courses. Only two courses in which a grade of "C" or above has been earned may be repeated.

Credit for a course in which a grade of "F" has been received can be earned only by repeating the course in residence unless prior approval is given by the head of the department in which the course was taken. A course in which a grade of "D" has been received may be repeated at another accredited institution.

A course that has been failed cannot be repeated by WKU On Demand (independent learning) without special permission from the department head. A student may not repeat by proficiency testing a course that has been previously taken or failed at WKU or another accredited institution.

If a course is repeated, the higher of the two grades will be counted in computing the grade point average; if the course is repeated a second time, the two higher grades combined will be used in computing the grade point average. The grade received for each attempt will continue to appear on the student's academic record. A student may attempt a single course no more than three times.

WKU does not guarantee the right to repeat any course. Courses may be deactivated, discontinued, or offered on a different schedule.

The Committee on Credits and Graduation has the responsibility for hearing appeals from students regarding the application of these regulations.

An appeal for special permission to repeat a course in the major or minor beyond the third attempt will be considered only upon the recommendation of the head of the department involved, and then only if special consideration is needed to raise the average in that subject to the minimum required.

Students seeking special consideration to repeat a course beyond the third attempt in the general education requirements and in free electives must first consult with the University Registrar. If, after this conference, an appeal is deemed appropriate, the Committee on Credits and Graduation will consider the student's request.

Transcripts—Transcripts will be released at the written request of the student and in conformity with university policy and existing state and federal statutes pertaining to the release of student academic records. The official academic record is the property of the University. Consequently, the University reserves the right to withhold the release of a transcript of that record if the student has an obligation to the University. Transcript request information is available on the Office of the Registrar website at www.wku.edu/registrar/transcript_request.php.

Academic Standing, Probation, and Appeal

Academic Standing — To be eligible for continuous enrollment without being placed on academic probation, a student must maintain a 2.0 in both the overall grade point average (GPA) and the total institution GPA (i.e., courses taken at WKU). Note: At the end of each academic term, students may access TopNet to obtain their term GPA, their total institution grade point average, and their overall grade point average.

Academic Warning — If a student's term GPA falls below the 2.0 requirement, but the student satisfies the 2.0 requirement for the institutional GPA and the overall GPA, the student's new academic standing is Academic Warning. Students whose academic standing falls to Academic Warning will be asked to attend an Academic Warning Workshop during the first week of classes of the term following the change in academic standing. In this workshop, students will learn what it means to be on Academic Warning, what the implications are for not raising their GPA, and what resources are available on campus to help them succeed in their coursework.

Academic Probation — If a student's institutional GPA and overall GPA falls below the 2.0 GPA requirement the student is placed on Academic Probation. A student on Academic Probation is allowed continued enrollment on a semester − by − semester probationary status as long as the student achieves a 2.0 grade point average each term until returning to academic Good Standing. The Academic Probation and dismissal processes for Western Kentucky University are administered by the ACDC. The ACDC uses The Best Expectation Programs (BEP) and The Learning Center (TLC) to provide students on Academic Probation with resources to achieve academic Good Standing.

Students on Academic Probation are required to participate in the Best Expectation Programs (BEP) through the Advising and Career Development Center (ACDC).

Academic Dismissal — Any student who fails to earn a term GPA of 2.0 or higher while on Academic Probation is academically dismissed and is not eligible to enroll in WKU classes for one calendar year (except as specified in the Academic Renewal Policy). Academic status for all students who complete a term is shown on TopNet. It is the student's responsibility to stay informed of his/her academic status and to improve academic performance until he/she is returned to good standing status.

Academic Dismissal Appeal Procedure — Students who are academically dismissed may file an appeal with Academic Appeal Committee through the ACDC. The Academic Dismissal Appeal Committee may dismiss the student from the University or allow the student continued enrollment under academic probation status with stated restrictions for one additional term. A student dismissed from the University by the Academic Dismissal Appeal Committee may appeal the decision to the Executive Appeals Committee. If the Executive Appeals Committee approves an appeal, the student will be permitted to register for an additional semester on academic probation with conditions determined by the Executive Committee at the time of approval. Detailed operational procedures followed by the University Academic Dismissal Appeal Committee may be obtained from the ACDC located in the Downing Student Union 2141.

Students who are either dismissed or who voluntarily withdraw due to academic deficiencies are eligible to reapply for readmission after one calendar year of absence from WKU. Readmission will be determined according to WKU admission standards at the time of application for readmission. Applications for readmission are to be filed with the Office of Admissions by published deadlines.

Academic Offenses —The maintenance of academic integrity is of fundamental importance to the University. Thus, it should be clearly understood that acts of plagiarism or any other form of cheating will not be tolerated and that anyone committing such acts risks punishment of a serious nature.

A student who believes a faculty member has dealt unfairly with him / her in a course involving academic offenses such as plagiarism, cheating, or academic dishonesty, may seek relief through the Student Complaint Procedure. Questions about the complaint procedure should be directed to the Student Ombuds Officer at (270) 745-8985 or student.ombudsman@wku.edu.

- **Academic Dishonesty**—Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the coursework in which the act is detected, or a failing grade in the course without possibility of withdrawal. The faculty member may also present the case to the Office of Student Conduct for disciplinary sanctions.
- **Cheating**—No student shall receive or give assistance not authorized by the instructor in taking an examination or in the preparation of an essay, laboratory report, problem assignment, or other project that is submitted for purposes of grade determination.
- **Plagiarism**—To represent written work taken from another source as one's own is plagiarism. Plagiarism is a serious offense. The academic work of a student must be his/her own. One must give any author credit for source material borrowed from him / her. To lift content directly from a source without giving credit is a flagrant act. To present a borrowed passage without reference to the source after having changed a few words is also plagiarism.
- **Other Types of Academic Dishonesty** — Other types of academic offenses, such as the theft or sale of tests, should be reported to the Office of Student Conduct at (270) 745-5429 for further action. http://www.wku.edu/studentconduct/process-for-academic-dishonesty.php.

Academic Renewal — An academic renewal program is available to qualified undergraduate students. Academic renewal prevents the voided coursework from counting toward graduation and the computation of the grade point average; however, the voided coursework will remain a part of the transcript. Qualified undergraduate students must have either at least 60 credit hours (counting hours before and after readmission) or not attended any accredited college or university for at least two previous years. If further courses are required to graduate, students must have a cumulative grade point average, since readmission, of at least 2.0 (with no grade below "D"), computed at the end of the term in which the student completes the lesser of 12 semester hours of courses numbered 100 or above or the number of such hours required to fulfill all other graduation requirements with the exception of GPA.

WKU accepts transfer credit retained through academic renewal at other institutions but will use grades from those courses for the computation of the higher education grade point average.

Students requesting academic renewal are required to complete and submit the "Petition for Academic Renewal" form to their department head or equivalent, indicating whether one semester or all previous coursework is to be voided. The approved form will be sent to the Office of the Registrar for final processing. No student may declare academic renewal more than once.

Withdrawal from the University—For various reasons it is occasionally necessary for a student to withdraw from the University. Prior to the midpoint of the semester, students may use TopNet to withdraw. After the midpoint of the semester, the student should report to the Office of the Registrar to initiate withdrawal procedures. Students leaving the institution without an official withdrawal will receive failing grades in all courses in which they are enrolled and endanger their future status in the institution. Students withdrawing after the midpoint of the semester, a bi-term or comparable period during a summer session must consult with their instructors as to the withdrawal grade. The official date of the withdrawal is the date the withdrawal is processed on TopNet or the written notice is received in the Office of the Registrar. Students wishing to return to WKU at a later date must submit an application for readmission prior to the deadline for submitting applications.

In special circumstances, as described below, a complete withdrawal from the University after the mid-point of a term will be considered. Request forms are available on the Office of the Registrar website at www.wku.edu/registrar/withdrawal.php.

- **Administrative Withdrawal** — A request for an administrative withdrawal is initiated by the University because of a disciplinary situation or when, in the professional judgment of a health care provider, psychologist and/or university administrator, there is reason to believe a student is a substantial threat to him/herself or interferes with the welfare of other members of the University, the education process, or the orderly operation of the University. The Vice President for Enrollment and Student Experience or the Associate Vice President for Academic Affairs, or their respective designees, will notify the student of the involuntary withdrawal, and the University Registrar will be directed to withdraw the student from all classes in which the student is currently enrolled and cancel registration that has occurred for any future terms. The Office of the Registrar will notify the student's instructors of the withdrawal, and "W" grades will be recorded for the term in progress. A student who is administratively withdrawn will have a registration hold placed by the Vice President for Enrollment and Student Experience or the Associate Vice President for Academic Affairs to prevent the student from being readmitted or re-enrolled unless cleared by the appropriate administrator or the respective designee. A student may file a written appeal of an involuntary withdrawal through the office that administered the withdrawal. Tuition refund appeals for administrative withdrawals are handled in a separate procedure, and instructions may be obtained from the Bursar's Office.
- **Medical Withdrawal** — A student may request and be considered for a medical withdrawal from all courses in a term when extraordinary circumstances, such as a serious physical or mental illness or injury, prevent the student from continuing his or her classes after the mid-point of a term, and incompletes or other arrangements with the instructors are not feasible or possible. A medical withdrawal must be substantiated with appropriate documentation from the attending health care provider. Once the rationale for a medical withdrawal has been validated by the Office of the Registrar, the student's instructors will be sent notification of the withdrawal, and "W" grades will be recorded for each course. A student who requests a medical withdrawal, or an individual requesting a withdrawal on behalf of the student who is physically or mentally unable to request the withdrawal, should contact the Office of the Registrar to obtain medical withdrawal procedures. Tuition refund appeals for medical withdrawals are handled in a separate procedure, and instructions may be obtained from the Bursar's Office.
- **Military Withdrawal** — Students who are members of any branch of the United States Armed Services, including the National Guard, who are called to active duty while enrolled at WKU are entitled to the following options.
    1. Students may work with each individual instructor to determine if an incomplete grade is appropriate, or
    2. If an incomplete grade is not a viable option, the student will be permitted to withdraw either from individual courses or from the entire schedule of classes. A full refund of tuition and fees will be issued for those courses from which the student has withdrawn.

  Students who are called to active duty while enrolled should contact the Office of the Registrar to initiate the withdrawal process. An official copy of the military orders must be presented to invoke this special withdrawal and refund process.
- **Retroactive Withdrawal** — A student who leaves the University for extenuating circumstances without an official withdrawal during the term of departure may apply for a retroactive withdrawal. The student must present supporting documentation that demonstrates serious and compelling reasons justifying the withdrawal and extenuating circumstances justifying its retroactive nature; poor academic performance that is not attributed to non-academic extenuating circumstances is not a consideration for retroactive withdrawal. A student may appeal for a retroactive withdrawal within two calendar years following the end of the term for which withdrawal is requested. A student need not be enrolled at WKU at the time the application for retroactive withdrawal is submitted.

An appellate board will review the request for a retroactive withdrawal. The board will consider the following factors, including, but not limited to:

1. Documentation of extenuating circumstances.
2. Written letter of support from an academic administrator, faculty member, advisor or other university professional who is familiar with the student's situation.

If a retroactive withdrawal is approved, the Office of the Registrar will notify the student's instructors and department heads of the request for a retroactive withdrawal, and they will be given 14 calendar days to raise objections if the student's classroom performance was such that a withdrawal (W) would not be appropriate. If objections are raised by the instructor or department head, the Office of the Registrar will be informed of the objection, and the student will not receive a "W" in the class. A tuition refund is not granted for a retroactive withdrawal.

Student Complaint Procedure — The student complaint procedure for resolving a complaint concerning a faculty member is outlined below in four steps.

Step 1 (Faculty Member)
The first step is for the student to discuss the complaint with the faculty member involved. If the faculty member is no longer employed by the University, the student should go directly to the department head who will contact and represent the former faculty member. If the complaint involves a grade, the student must take the complaint to the faculty member within the first two weeks of the first regular semester (fall; spring) following the assignment of the grade. It is hoped that the complaint may be satisfactorily dealt with at this level.

Step 2 (Department Level)
If the student and the faculty member are unable to resolve the complaint, the student may take the complaint to the faculty member's department head. Written notification of the complaint must be given to the department head within two weeks after the meeting with the faculty member. It is the responsibility of the department head to arrange for a conference where the student, faculty member and the department head will be present for discussion. Neither the faculty member nor the student will be allowed representation at the conference. The department head shall hear both sides of the complaint and shall attempt to mediate a settlement. The department head shall keep a written record of the proceedings, including the recommended solution. The department head's recommended solution is to be considered by both the faculty member and the student as a recommendation and not as a decision that is binding.

Step 3 (College Level)
Should the student be unable to receive the satisfaction desired at the departmental level, the complaint may be taken to the college level. Written notification of the complaint must be submitted to the college dean or his designated representative within two weeks after the conference with the department head (Step 2). Upon receipt of the notification, the college dean or his/her representative shall provide the student a copy of the procedural guidelines to be followed by the College Complaint Committee. The procedural guidelines shall provide for a conference with both the student and the faculty member present for joint discussion of the complaint with the committee.

The College Complaint Committee will be responsible for scheduling the conference within two weeks following the submission of a written complaint to the chair of the College Complaint Committee, including as much detail as the student cares to include. The written complaint should clearly state what is considered to be unreasonable and/or unfair practices or procedures. Neither the faculty member nor the student will be allowed representation at the conference. The College Complaint Committee shall hear both sides of the complaint and render a decision. The decision shall be sent in writing to the Provost and Vice-President for Academic Affairs, with a copy being sent as a matter of record to the student, faculty member, faculty member's department head and the faculty member's college dean. The Office of the Provost and Vice-President for Academic Affairs shall be responsible for enforcing the decision of the college committee. The Office of the Provost and Vice-President for Academic Affairs shall not enforce the decision until two weeks after the decision is made by the college committee. The purpose of the two week delay is to provide either the student or the faculty member an opportunity to submit a formal written notice of appeal to the University Complaint Committee.

Step 4 (University Level)
Should the student or the faculty member desire to appeal the decision of the College Complaint Committee, a formal written notice of appeal may be submitted to the University Complaint Committee chair, with a copy to the Provost and Vice-President for Academic Affairs, within two weeks of the decision of the College Complaint Committee. The chair of the University Complaint Committee will provide the student and the faculty member involved with a copy of the University Complaint Committee's Procedural Guidelines. The University Complaint Committee will secure copies of the written proceedings from the department head and the College Complaint Committee. The University Complaint Committee will schedule a conference where the faculty member and the student jointly discuss the issue.

Neither the faculty member nor the student will be allowed representation at the conference. The committee's decision will be sent to the Provost and Vice-President for Academic Affairs, with a copy being sent as a matter of record to the student, faculty member, faculty member's department head and the faculty member's college dean. The Office of the Provost and Vice-President for Academic Affairs will see that decisions of the University Complaint Committee are carried out. The University Complaint Committee's decision is final.

Important Complaint Exceptions:

- Student Disability regarding denial of accommodations, report to Student ADA Compliance Officer and follow WKU policy #6.1010
- Discrimination and Harassment concerns, see below reporting process and follow WKU policy #0.2040 and #0.2070
    - Discrimination is always reported to the Office of Equal Opportunity Employment (EEO)
    - Student-to-student harassment is reported to Office of Student Conduct or the WKU Title IX Coordinator
    - Student-to-faculty/employee harassment is reported to the Office of Equal Opportunity Employment (EEO)

Degree Requirements

Curriculum Requirements—All candidates for a degree must complete one of the academic programs offered by the University. A candidate for an associate degree must complete a minimum of 60 unduplicated undergraduate semester hours; however, some associate degree programs may require more than the minimum 60 semester hours. A candidate for the baccalaureate degree must complete a minimum of 120 unduplicated undergraduate semester hours; however, some baccalaureate degree programs may require more than the minimum 120 semester hours. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain these regulations, students should contact the appropriate department head.

Catalog Term and Student Catalog Rights—The student's initial term of entry is identified as the student's "catalog term." Catalog term rights include the following:

- A student shall be entitled to follow Colonnade and major / minor degree requirements contained in the catalog current when first enrolled at WKU as a degree-seeking student. This does not preclude the addition of requirements arising from action of the Commonwealth of Kentucky.
- A student will be allowed seven consecutive years from his/her catalog term to complete degree requirements. The college dean may grant an extension to this deadline.
- A student who drops out and re-enrolls after an absence of seven consecutive years or more will be assigned the catalog term of the readmission term.
- A student's catalog term will be changed to a more recent term if the student, in consultation with the advisor and with approval by the department head, agrees to follow more recent degree requirements.
- Students who were first enrolled at WKU prior to Fall 2014 will have until Fall 2019 to complete general education requirements as outlined in the undergraduate catalog of the year of their enrollment, unless they determine, in consultation with their academic advisor, to transition to the new WKU Colonnade General Education program.

Academic departments reserve the right to authorize appropriate course substitutions for earlier versions of major/minor requirements in which required courses have been discontinued.

Academic Standing—A candidate for an undergraduate degree must have a GPA of at least 2.0 (1) in all credits presented for graduation whether earned at WKU or elsewhere, (2) in all credits completed at WKU, (3) overall in the major subjects and in the minor subjects, and (4) in the major subjects and in the minor subjects completed at WKU. Students desiring teacher certification must fulfill all GPA requirements for teacher certification in the major and minor, in addition to meeting the requirements for graduation.

Students should be aware that some academic programs require a "C" or higher in each course applicable toward a major or minor. Refer to the departmental descriptions in this catalog or contact the department head to determine the specific grade requirements for each major.

Change of Major, Minor, Concentration, and/or Advisor

Changes in majors, minors, concentrations, and advisors can be made upon request. Students must submit a *Major, Minor, Concentration, Advisor Change Form* to the academic department that administers the student's chosen program. The form is available online for students in TopNet (Student Services, Student Records, Change of Major, Minor, Concentration, Advisor). Changes in majors, minors, concentrations, and advisors are provisional until the receiving department has reviewed and accepted the request.

Course Requirements—At least one-third of the course requirements in each major and minor must be earned through instruction at WKU.

At least one-half of the semester hours required for each major and minor must be earned in undergraduate courses numbered 300 and above (except minors in business administration and computer information systems, and majors in dental hygiene, social studies, art education, and middle grades education; refer to the specific program description for details.)

A minimum of 42 undergraduate semester hours must be completed in upper division courses (courses numbered 300 or above) by students earning a baccalaureate degree. Student transferring with an applied associate degree (e.g., Associate in Applied Science or its equivalent) into the following majors must complete a minimum of 30 undergraduate semester hours in upper division courses: computer information technology, dental hygiene, health sciences, nursing, organizational leadership, technology management and work force administration; refer to each specific major description for more details.

Double Majors—Students with diverse or multiple areas of interest might consider adding breadth to their academic program by choosing to pursue double majors. Students pursuing double majors must fulfill all of the requirements for both majors and all baccalaureate degree requirements, and the requirements may be completed with a minimum of 120 semester hours. Completion of two majors results in the receipt of one degree, and the specific degree is determined by the student's choice of the first or primary major.

Certificate Programs—Only undergraduate courses may be used to fulfill undergraduate certificate program requirements.

Residence Requirements—The minimum residence requirement for the bachelor's degree is 25% of the minimum number of semester hours required in the student's degree program through instruction at WKU. The minimum residence requirement for an associate degree is 25% of the minimum number of semester hours required in the student's degree program through instruction at WKU. One-third of the hours in the specialty must be earned at WKU. A student is permitted to transfer a maximum of six semester hours toward a certificate program.

Residence Credit for Graduation—Undergraduate residence credit is any academic credit for which WKU provides the instruction and awards credit placed on the students' transcript. Nonresidence credit is academic credit which WKU accepts as transfer credit from another college or university, including credit earned through examinations, such as, AP, CLEP, Cambridge, Departmental Exam, Military Service, ACT, SAT, or IB.

Concurrent and Subsequent Degrees—Students may pursue two or more degrees either concurrently or subsequently, as specified below.

A. Concurrent (Dual) Associate Degrees

- A minimum of 75 semester hours must be earned to complete the requirements of two associate degrees concurrently.
- Courses taken toward fulfilling one associate degree may also count toward fulfilling requirements in the other, provided that a minimum of 15 semester hours of coursework in the additional major – not including general education – applies exclusively to the additional concurrently earned associate degree.
- A minimum of 15 semester hours must be earned through instruction at WKU.
- A minimum 2.0 grade point average must be earned for all coursework presented in completion of both degrees; in all coursework completed at WKU; and in all coursework in the major.
- Students may pursue concurrent degrees that lead to the same degree type (e.g., two Associate of Science degrees)
- Students must file a separate Application for Graduation and pay the graduation fee for each degree. Two diplomas will be awarded upon simultaneous completion of the two degrees.

B. Subsequent Associate Degree

- Students must have earned an acceptable associate or higher degree from a fully accredited college or university.
- The approved program must include a minimum of 15 semester hours in a new major earned after completion of the student's first degree.
- A minimum of 12 semester hours must be earned through instruction at WKU.
- A 2.00 grade average must be earned for all coursework presented in completion of the program; in all coursework completed at WKU; and in all coursework in the major.

C. Concurrent (Dual) Baccalaureate Degrees

- A minimum of 150 semester hours must be earned to complete the requirements of two baccalaureate degrees concurrently.
- A minimum of 57 upper division hours must be earned (courses numbered 300 or above).
- A minimum of 30 hours must be earned through instruction at WKU.
- A minimum 2.0 grade point average must be earned in all coursework presented in completion of the degrees; in all coursework completed at WKU; and in all coursework in each major and minor.
- Students may pursue concurrent degrees that lead to the same degree type (e.g., two Bachelor of Science degrees).
- Students are not permitted to pursue the Bachelor of Interdisciplinary Studies (BIS) and another baccalaureate degree concurrently.
- Students must file a separate Application for Graduation and pay the graduation fee for each degree. Two diplomas will be awarded upon simultaneous completion of the two degrees.

D. Subsequent Baccalaureate Degree

- Students must have earned an acceptable baccalaureate degree from a fully accredited college or university.
- The approved program must include a minimum of 30 semester hours earned after completion of the student's first degree. A minor may be declared as part of the subsequent degree, but is not required.
- A minimum of 24 semester hours must be earned through instruction at WKU.
- Fifteen semester hours must be earned in completion of a new major.
- One-half of the new semester hours presented in completion of each major and minor must be earned at the upper division level (courses numbered 300 or above).
- A minimum 2.00 grade average must be earned for all coursework presented in completion of the program; in all coursework completed at WKU; and in all coursework in each major and minor.
- Students are not permitted to pursue the Bachelor of Interdisciplinary Studies (BIS) as a subsequent baccalaureate degree.

Degree Conferral—Degrees are conferred in May, August and December. All forms must be completed, all incompletes must be removed, all transfers of credit received, and all WKU On Demand (independent learning) courses completed by the last day of the month in which the degree is to be awarded. Failure to comply could result in postponement of the graduation date. Students completing degree requirements during any of the summer sessions (i.e., May, June, July) will receive an August degree conferral. Students completing degree requirements during the winter term will receive a May degree conferral.

Students with outstanding obligations to the University will not be awarded a diploma until the University Registrar has been notified by the appropriate office that the obligation has been settled. The student must, in all cases, be primarily responsible for meeting the requirements for graduation.

Application for Graduation—All candidates for a baccalaureate degree are expected to apply for graduation immediately after attaining senior status (i.e., 90 hours earned). Associate degree candidates are expected to apply for graduation after earning 45 hours. The Application for Graduation is available on TopNet under Student Records.

Culminating Assessment—Students are required to show evidence of knowledge in their major field(s) prior to degree completion. Each program will require students to provide evidence that standards have been met through portfolio, examination, capstone course, juried performance, or other culminating experiences.

Recognition of Academic Achievement—The University provides a system through which students with outstanding academic records are appropriately recognized. Students are recognized according to the following categories each semester:

Dean's Scholars—Undergraduate students enrolled full-time whose grade point average for the preceding semester ranged between 3.40 - 3.79.

President's Scholars—Undergraduate students enrolled full-time whose grade point average for the preceding semester ranged between 3.80 - 4.00.

Students who maintain superior cumulative grade point averages are recognized at graduation according to the following designations:

With Distinction—The graduation honor given to students who have completed their associate degree with both cumulative overall and cumulative WKU grade point averages of 3.4 - 3.69 and a minimum of 27 semester hours earned through instruction at WKU.

With High Distinction—The graduation honor given to students who have completed their associate degree with both cumulative overall and cumulative WKU grade point averages of 3.7 - 4.0 and a minimum of 27 semester hours earned through instruction at WKU.

Cum Laude—The graduation honor given to students who have completed their baccalaureate study with both cumulative overall and cumulative WKU grade point averages of 3.40 - 3.59 and a minimum of 45 semester hours earned through instruction at WKU.

Magna Cum Laude—The graduation honor given to students who have completed their baccalaureate study with both cumulative overall and cumulative WKU grade point averages of 3.60 - 3.79 and a minimum of 45 semester hours earned through instruction at WKU.

Summa Cum Laude—The graduation honor given to students who have completed their baccalaureate study with both cumulative overall and cumulative WKU grade point averages of 3.80 - 4.00 and a minimum of 45 semester hours earned through instruction at WKU.

Scholar of the College—This award is presented at commencement to the baccalaureate degree recipient in each college with the highest overall cumulative grade point average who has earned a minimum of 60 semester hours through instruction at WKU. The Scholar of the College award is presented to recipients of first baccalaureate degrees only.

Ogden Foundation Scholar—The Ogden Foundation Scholar Award is presented to one graduating baccalaureate degree senior who has demonstrated exceptional academic achievement and outstanding university and civic engagement. Student(s) with the highest GPA in each college (based upon the GPA at the beginning of the semester in which degree requirements will be completed) who have earned at least 60 hours through instruction at WKU will be invited to apply for the award. The application will consist of an application form, an essay and two letters of recommendation. A committee comprised of a representative of each baccalaureate college and a member of the Ogden Foundation Board of Trustees will select the top three candidates to be interviewed and will select the award recipient. The recipient will receive a plaque and a monetary award provided by the Ogden Foundation.

Exceptions to Degree Requirements—No substitution for requirements prescribed by the Kentucky Council on Postsecondary Education may be made. Substitutions for departmental requirements may be made under certain conditions when recommended by the department head concerned and approved by the dean's office.

Appeals regarding degree requirements may be submitted to the Office of the Registrar for consideration by the Committee on Credits and Graduation. This committee is the body responsible for hearing undergraduate students' appeals of university academic requirements and regulations. Appeals must be submitted by the student in typed form to the Office of the Registrar. The request should include the statement of the problem, statement of request, and justification of circumstances supporting the request. Statements of support or clarification from the student's academic advisor are encouraged if the problem resulted from the advisement process. When a request pertains to an exception in a major or minor, the student should consult with the appropriate department head for a written recommendation to the committee. Decisions of the committee shall be made by a simple majority of the voting members in attendance. Detailed information regarding the submission of an appeal is available from the Office of the Registrar and on the Office of the Registrar website at www.wku.edu/registrar.

Colonnade Requirements

The *WKU Colonnade Program* (General Education) seeks to embody the following goals and learning outcomes:

1. **Knowledge of human cultures and the physical and natural world, including**
   a. An informed acquaintance with major achievements in the arts and the humanities;
   b. An appreciation of the complexity and variety of the world's cultures;
   c. An understanding of the scientific method and a knowledge of natural science and its relevance in our lives;
   d. A historical perspective and an understanding of connections between past and present.
2. **Intellectual and practical skills, including**
   a. The capacity for critical and logical thinking;
   b. Proficiency in reading, writing, and speaking;
   c. The ability to understand and apply mathematical skills and concepts.
3. **Personal and social responsibility, including**
   a. An understanding of society and human behavior;
   b. An understanding of factors that enhance health, well-being, and quality of life.
4. **Integrative Learning, including**
   a. Synthesis and advanced accomplishments across general and specialized studies.

All coursework is categorized as General Education coursework and consists of courses in 3 categories.

Note: Courses with a "C" suffix will fulfill the appropriate requirement.

Associate Degree Seeking Students must complete a minimum of 15 hours of Colonnade coursework chosen from: 3 hours of College Composition (WC); 3 hours of Arts and Humanities (AH); 3 hours of Social and Behavioral Sciences (SB); 3 hours of either Quantitative Reasoning (QR) or Natural and Physical Sciences (NS); and another 3 hours from the Foundations or Explorations categories.

Baccalaureate Degree Seeking Student must complete 39 hours of Colonnade coursework as outlined on the following pages, and on the Colonnade website (which includes newly approved courses): http://www.wku.edu/colonnade/.

I. Foundations: Intellectual and Practical Skills (18 hours)

College Composition (3) (WC): *Students with an English ACT score ≥ 29, or an SAT score 650 ≥ on Critical Reading (prior to March 2016), or SAT score ≥ 35 on Writing and Language (March 2016 and after) will receive credit for this requirement.*

- English (ENG 100 / ENGL 100C) - *Introduction to College Writing*

Writing in the Disciplines (3) (WC): *ENG 300, or 200-level or higher writing in the discipline course*

- Communication (COMM) 200 – *Communication Foundations*
- English (ENG) 300 – *Writing in the Disciplines*
- Geography (GEOG) 300 – *Writing in the Geosciences*
- Psychological Sciences (PSYS) 300 – *Writing in Psychological Sciences*

Human Communication (3) (OC)

- Communication (COMM) 145 – *Fundamentals of Public Speaking and Communication*

Quantitative Reasoning (3) (QR): *Students with a Math ACT score ≥ 26 or an SAT Math score* ≥ 590 (prior to March 2016) or *SAT score ≥ 630 (March 2016 and after) will receive credit for Math 116*

- Computer Science (CS) 146 – *Introduction to Programming*
- Math (MATH 109 / MA 109C) – *General Mathematics*
- Math (MATH) 112 – *Problem Solving and Mathematical Skills for Teachers*
- Math (MATH 115 / MA 115C) – *Applied College Algebra*
- Math (MATH 116 / MA 116C) – *College Algebra*
- Math (MATH 117 / MA 117C) – *Trigonometry*
- Math (MATH) 123 – *Mathematical Applications for Business*
- Math (MATH) 136 – *Calculus I*
- Math (MATH) 142 – *Calculations with Applications for Life Sciences*
- Math (MATH) 183 – *Introductory Statistics*
- Philosophy (PHIL) 215 – *Symbolic Logic*

Literary Studies (3) (AH)

- English (ENG 200 / ENGL 200C) – *Introduction to Literature*
- Religious Studies (RELS) 200 – *World Religious Literature*

World History (3) (SB)

- History (HIST) 101 – *World History I*
- History (HIST) 102 – *World History II*

II. Explorations: Knowledge of Human Cultures and the Physical and Natural World (12 hours)

Arts & Humanities (3) (AH)

- Asian Religions and Cultures (ARC) 100 – *Introduction to Asian Studies*
- Art (ART) 100 – *Art Appreciation*
- Art (ART) 105 – *History of Art to 1300*
- Art (ART) 106 – *History of Art since 1300*
- Dance (DANC) 110 – *Dance Appreciation*
- Film (FILM) 201 – *Introduction to the Cinema*
- Folk Studies (FLK) 276 – *Introduction to Folk Studies*
- Music (MUS) 120 – *Music Appreciation*
- Philosophy (PHIL) 101 – *Enduring Questions: Truth and Relativism*

- Philosophy (PHIL) 102 – *Enduring Questions: The Good and the Beautiful*
- Philosophy (PHIL) 103 – *Enduring Questions: The Committed Life*
- Popular Culture Studies (POP) 201 – *Introduction to Popular Culture Studies*
- Religious Studies (RELS) 100 – *The New Testament*
- Religious Studies (RELS) 101 – *The Old Testament / Hebrew Scriptures*
- Religious Studies (RELS) 102 – *Introduction to Religious Studies*
- Theatre (THEA) 151 – *Theatre Appreciation*

Social & Behavioral Sciences (3) (SB)

- African American Studies (AFAM) 190 – *African American Experience*
- Agriculture (AGRI) 108 – *Rural Sociology*
- Anthropology (ANTH) 120 – *Introduction to Cultural Anthropology*
- Anthropology (ANTH) 130 – *Introduction to Archaeology*
- Business Management (BUS) 100C – *Introduction to Business*
- Center for Citizenship & Social Justice (CSJ) 200 – *Introduction to Social Justice*
- Counselor Education (CNS) 110 – *Human Relations*
- Criminology (CRIM) 101 – *Introduction to Criminal Justice*
- Economics (ECON 150/ECO 150C) – *Introduction to Economics*
- Economics (ECON 202 / ECO 202C) – *Principles of Economics (Micro)*
- Economics (ECON) 203 – *Principles of Economics (Macro)*
- Finance (FIN) 161 – *Personal Finance*
- Geography (GEOG) 110 – *World Regional Geography*
- Gender and Women's Studies (GWS) 200 – *Introduction to Gender and Women's Studies*
- Gerontology (GERO) 100 – *Introduction to the Aging Experience*
- Leadership (LEAD 200 / LEA 200C) – *Introduction to Leadership Studies*
- Nursing (NURS) 102 – *Introduction to Professional Nursing*
- Political Science (PS) 110 – *American National Government*
- Political Science (PS) 250 – *International Politics*
- Political Science (PS) 260 – *Introduction to Comparative Politics*
- Psychology / Psychological Sciences (PSY / PSYS) 100 – *Introduction to Psychology*
- Psychology / Psychological Sciences (PSY / PSYS) 220 – *Introduction to Life Span Developmental Psychology*
- Public Health (PH) 100 – *Personal Health*
- Recreation (REC) 200 – *Introduction to Recreation*
- Science and Mathematics Education (SMED) 101 – *Introduction to Inquiry-Based Approaches to Teaching*
- Science and Mathematics Education (SMED) 102 – *Introduction to Inquiry-Based Lesson Design*
- School of Journalism & Broadcasting (SJB) 154 - *New Media Literacy: Explorations in Participatory Culture*
- Social Work (SWRK) 101 – *Foundations of Human Services*
- Sociology (SOCL) 100 – *Introductory Sociology*

Natural & Physical Sciences (6) (NS): *Minimum of 6 hours, including one course with an essential applied/lab component (SL). Courses must be taken from 2 different disciplines.*

- Agriculture (AGRI) 280 – *Introduction to Environmental Science* (NS)
- Astronomy (ASTR) 104 – *Astronomy of the Solar System* (NS) (SL)
- Astronomy (ASTR) 106 – *Astronomy of Stellar Systems* (NS) (SL)
- Astronomy (ASTR) 108 – *Descriptive Astronomy* (NS)
- Biology (BIOL) 113 – *General Biology* (NS)
- Biology (BIOL) 114 – *General Biology Lab* (SL)
- Biology (BIOL) 120 – *Biological Concepts: Cells Metabolism and Genetics* (NS)
- Biology (BIOL) 121 – *Biological Concepts: Cells Metabolism and Genetics Lab* (SL)
- Biology (BIOL) 122 – *Biological Concepts: Evolution Diversity and Ecology* (NS)
- Biology (BIOL) 123 – *Biological Concepts: Evolution Diversity and Ecology Lab* (SL)
- Biology (BIOL) 131 – *Human Anatomy and Physiology* (NS) (SL)
- Biology (BIOL) 207 – *General Microbiology* (NS)
- Biology (BIOL) 208 – *General Microbiology Lab* (SL)
- Chemistry (CHEM) 101 – *Introduction to Chemistry* (NS) (SL)
- Chemistry (CHEM) 105 – *Fundamentals of General Chemistry* (NS)
- Chemistry (CHEM) 106 – *Fundamentals of General Chemistry Lab* (SL)
- Chemistry (CHEM) 109 – *Chemistry for the Health Sciences* (NS)
- Chemistry (CHEM) 111 − *Introduction to Forensic Chemistry* (NS) (SL)

- Chemistry (CHEM) 116 – *Introduction to College Chemistry* (NS)
- Chemistry (CHEM) 120 – *College Chemistry I* (NS)
- Chemistry (CHEM) 121 – *College Chemistry I Lab* (SL)
- Environmental Studies (ENV) 280 – *Introduction to Environmental Science* (NS)
- Geography/Geology (GEOG/GEOL) 103 – *Our Dynamic Planet* (NS)
- Geography (GEOG) 280 – *Environmental Science and Sustainability* (NS) (SL)
- Geology (GEOL) 111 – *The Earth* (NS)
- Geology (GEOL) 113 – *The Earth Lab* (SL)
- Geology (GEOL) 112 – *Earth History* (NS)
- Geology (GEOL) 114 – *Earth History Lab* (SL)
- Meteorology (METR) 121 – *Meteorology* (NS) (SL)
- Physics (PHYS) 100 – *Energy* (NS)
- Physics (PHYS) 101 – *Concepts of Motion* (NS) (SL)
- Physics (PHYS) 103 − *Light, Color, and Vision* (NS) (SL)
- Physics (PHYS) 130 – *Acoustics of Music and Speech* (NS) (SL)
- Physics (PHYS) 180 – *Introductory Modern Physics* (NS)
- Physics (PHYS) 181 – *Introductory Modern Physics Lab* (SL)
- Physics (PHYS) 201 – *College Physics I* (NS) (SL)
- Physics (PHYS) 255 – *University Physics I* (NS)
- Physics (PHYS) 256 – *University Physics I Lab* (SL)
- Psychological Sciences (PSYS) 160 – *Introduction to Biopsychology* (NS)
- Psychological Sciences (PSYS) 161 – *Introduction to Biopsychology Lab* (SL)

Connections: Understanding Individual and Social Responsibility (9 hours)

Students should complete 21 hours or have junior status before enrolling, since content builds on Explorations and Foundations courses. ***Courses must be from 3 separate disciplines.***

Social & Cultural (3) (SC)

- Anthropology (ANTH) 360 – *Applied Anthropology: Understanding and Addressing Contemporary Human Problems*
- Center for Citizenship & Social Justice (CSJ) 435 – *Reimagining Citizenship*
- Communication (COMM) 365 – *Intercultural Communication*
- Dance (DANC) 360 – *Dance in Culture: Moving History*
- Diversity and Community Studies (DCS) 360 – *Place, Community, and Resilience*
- Economics (ECON) 375 – *Moral Issues of Capitalism*
- Education (EDU) 385 – *Climate, Resources, & Society*
- English (ENG) 320 – *American Studies I*
- Folk Studies (FLK) 330 – *Cultural Connections and Diversity*
- Geography (GEOG) 200 – *Latin American Society: Past and Present*
- Geography (GEOG) 330 – *Introduction to Cultural Geography*
- Geography (GEOG) 385 – *Society, Resources and Climate*
- History (HIST) 200 – *Latin American Society: Past and Present*
- History (HIST) 317 – *Renaissance Europe*
- History (HIST) 320 – *American Studies I*
- History (HIST) 324 – *Modern Britain Since 1688.*
- History (HIST) 325 – *Blacks in the Civil War and Reconstruction*
- History (HIST) 340 – *History of Popular Culture since 1500*
- History (HIST) 341 – *A Cultural History of Alcohol*
- History (HIST) 364 – *Colonial Latin America, 1400-1825*
- History (HIST) 390 – *Blacks in the American South*
- Interdisciplinary Studies (IDST) 390 – *Applications of Interdisciplinary Studies*
- Interior Design & Fashion Merchandising (IDFM) 431 – *Clothing and Human Behavior*
- Music (MUS) 320 – *Rock and Roll – Music for a New Generation*
- Music (MUS) 322 – *The Blues: Music from the Delta to Chicago*
- Music (MUS) 323 – *Music and Drama: From Opera to Musical Theatre and Film*
- Music (MUS) 327 – *Music History II*
- Nursing (NURS) 415 – *Complementary Health Care*
- Paralegal Studies (PLS) 324 – *Women and the Law*
- Philosophy (PHIL) 211 – *Why Are Bad People Bad?*
- Philosophy (PHIL) 212 – *Philosophy and Gender Theory*
- Political Science (PS) 200 – *Latin American Society: Past and Present*
- Political Science (PS) 320 – *American Studies*
- Potter College of Arts & Letters (SUS) 295 – *Popular Culture and Gender: Signs & Narratives*

- Psychology/Psychological Sciences (PSY/PSYS) 350 – *Social Psychology*
- Public Health (PH) 365 – *Human Sexuality*
- Public Health (PH) 447 – *Human Values and the Health Sciences*
- Religious Studies (RELS) 211 – *Jesus in Film*
- Religious Studies (RELS) 222 – *Christians, Jews, and Pagans in the Greco-Roman World*
- Religious Studies (RELS) 305 − *Christianity*
- Religious Studies (RELS) 318 – *Daoism*
- Religious Studies (RELS) 331 – *Islam in America*
- Religious Studies (RELS) 333 – *Women, Religion, and Society*
- Religious Studies (RELS) 341 – *Religion and the Environment*
- School of Journalism and Broadcasting (SJB) 310 – *Media Diversity*
- Sociology (SOCL) 220 – *Marriage and Family*
- Spanish (SPAN) 200 – *Latin American Society: Past and Present*
- Theatre (THEA) 323 – *Period Styles in Design*
- Theatre (THEA) 341 – *Culture and Performance*

Local to Global (3) (LG)

- African American Studies (AFAM) 343 – *Communities of Struggle*
- Anthropology (ANTH) 316 – *The Archaeology of Environmental Change*
- Anthropology (ANTH) 388 – *Foodways*
- Art (ART) 318 – *Art and Landscape*
- Biology (BIOL) 372 – *Causes and Consequences of Human-Wildlife Conflict*
- Biology (BIOL) 380 – *Challenges of a Changing Biosphere*
- Center for Citizenship & Social Justice (CSJ) 380 – *Trends Shaping our Future: Local and Global Perspectives*
- Computer Information Systems (CIS) 205 – *Technology in Society and Business*
- Economics (ECON) 430 – *Environmental and Resource Economics*
- English (ENG) 388 – *Postcolonial Studies*
- Folk Studies (FLK) 373 – *Folklore and the Media*
- Folk Studies (FLK) 388 – *Foodways*
- Geographic Information Systems (GISC) 216 – *Geotechnologies in a Global Community*
- Geography (GEOG) 378 – *Food, Culture, and Environment*
- Geography (GEOG) 380 – *Global Sustainability*
- Geography (GEOG) 452 – *Applied Geoscience Field Experiences*
- Health Care Administration (HCA) 347 – *International Comparisons of Health Care Systems*
- History (HIST) 300 – *Contemporary Chinese Society and Culture*
- History (HIST) 365 – *Modern Latin America, 1800-PRESENT*
- History (HIST) 379 – *Gandhi: The Creation of a Global Legacy*
- History (HIST) 380 – *Human Rights in History*
- History (HIST) 407 – *The Crusades: West Meets East*
- History (HIST) 430 – *The History of the Civil Rights Movement in America*
- History (HIST) 463 – *The Atlantic World*
- Leadership Studies (LEAD) 450 – *Leadership in Global Contexts*
- Music (MUS) 277 – *World Music*
- Political Science (PS) 357 – *U.S. Foreign Policy*
- Political Science (PS) 365 – *Government and Politics of the Middle East*
- Public Health (PH) 410 – *Global Perspectives on Population Health*
- Religious Studies (RELS) 242 – *Meanings of Life: Atheism to Zen*
- Religious Studies (RELS) 322 – *Islam and Pilgrimage*
- Sociology (SOCL) 240 – *Global Social Problems*
- Sociology (SOCL) 270 – *Introduction to Community, Environment, and Development*
- Sociology (SOCL) 372 – *Causes and Consequences of Human-Wildlife Conflict*
- Sociology (SOCL) 376 – *Sociology of Globalization*
- Social Work (SWRK) 300 − *Diversity and Social Welfare*
- School of Professional Studies (SPS) 400 – *Foundations of Global Citizenship*
- School of University Studies (SUS) 276 – *Displaced Persons & Civic Engagement*

Systems (3) (SY)

- Architectural and Manufacturing Sciences (AMS) 303 – *Food Laws and Regulations*
- Anthropology (ANTH) 305 – *Paleoanthropology: Human Origins and Evolution*
- Architectural and Manufacturing Sciences (AMS) 368 – *Problem Solving/Research*
- Art (ART) 317 – *Art and Power*
- Biology (BIOL) 390 – *Ethnobiology: People, Plants, & Animals*
- Communication (COMM) 349 – *Small Group Communication*
- Criminology (CRIM) 430 – *Comparative Systems of Juvenile Justice*
- Diversity and Community Studies (DCS) 300 – *Public Problem Solving*
- Diversity and Community Studies (DCS) 363 – *Narrative, Discourse, and Imprisonment*

- Entrepreneurship (ENT) 312 − *Entrepreneurship*
- Family and Consumer Sciences (HMD) 211 – *Human Nutrition*
- Geography (GEOG) 225 – *Visualizing Geography: Understanding our Diverse World*
- Geography (GEOG) 226 – *Our Dangerous Planet*
- Geography (GEOG) 227 – *Our Vulnerable Planet*
- Geology (GEOL) 315 – *Energy, Climate and Carbon*
- History (HIST) 305 – *Ancient Greece*
- History (HIST) 306 – *Ancient Rome*
- History (HIST) 307 – *The Middle Ages*
- History (HIST) 308 – *Conflict, Culture, and Commerce in the Medieval Mediterranean*
- History (HIST) 310 – *Comparative Slavery*
- Humanities (HUM) 240 – *Geometry in Art and Architecture*
- Math (MATH) 240 – *Geometry in Art and Architecture*
- Meteorology (METR) 322 – *Global Climate Systems*
- Philosophy (PHIL) 332 – *Philosophy of Mind: Minds and Machines*
- Political Science (PS) 220 – *Judicial Process*
- Political Science (PS) 304 – *State Government*
- Political Science (PS) 311 – *Public Policy*
- Psychological Sciences (PSYS) 353 – *Psychology of Prejudice and Stereotyping*
- Psychological Sciences (PSYS) 423 – *Psychology of Adult Life and Aging*
- Psychological Sciences (PSYS) 482 – *Psychology of Sexuality*
- Religious Studies (RELS) 317 − *Confucianism*
- School of Professional Studies (SPS) 300 – *Systems Thinking and Problem-Solving in Complex Organizations*
- Sociology (SOCL) 322 – *Religion in Society*
- Sociology (SOCL) 342 – *Aging in Society*
- Sociology (SOCL) 363 – *Population, Society, and Development*

World Language Proficiency

All entering students must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice High is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students can do one of the following:

1. All degree-seeking students who have a catalog term through 2019-2020 and with two credits (or equivalent) of high school world language are considered to have fulfilled the world language proficiency requirement at WKU.
2. Enroll in a new language not previously studied and complete the language course at the 101 and 102-level (or higher, excluding SPAN 200 and 105 courses of any language prefix) with a grade of C or better. Language options include Arabic (ARBC), Chinese (CHIN), French (FREN), German (GERM), Italian (ITAL), JAPN (JAPN), Korean (KORE), Russian (RUSS), Spanish (SPAN), or Swahili (SWAH). The following languages offered outside the Modern Languages Department also fulfill this requirement: American Sign Language (ASL 102 or higher), Chinese Flagship (CHNF 101 or higher), Greek (RELS / BLNG 155), Hebrew (RELS / BLNG 153), Latin (RELS 151), and Pali II (RELS 157).
3. Continue a language taken previously and complete the 102-level of the language with a grade of C or better. See the list of courses mentioned above, the course descriptions in the back of this catalog, or the website for a comprehensive listing (which includes newly approved courses): http://www.wku.edu/colonnade/.
4. Successfully complete a proficiency test; such as the AP, CLEP, IB, AAPPL, Avandt STAMP, BYU FLATS, or departmental exam. Information on the AP, CLEP, IB, and departmental exams are available in the "Credit by Exam" section of the undergraduate catalog. The AAPPL, Avant STAMP, and BYU FLATS information is found on the www.wku.edu/colonnade site.

For more information about the World Language Proficiency Requirement, visit http://www.wku.edu/modernlanguages/placement/.

The general education world language requirements will be waived for students whose first language is not English. To demonstrate non-English proficiency students can do one of the following:

1. International students from non-English speaking countries can receive the waiver from the International Student Office (request at: http://www.istart.wku.edu/).
2. Domestic students, and international students from English speaking countries, have several options to demonstrate proficiency in language other than English:
    - Successfully complete one of the proficiency exams mentioned above (#3)
    - Provide evidence of the completion of the 8th grade, or equivalent, or higher in which the primary language of instruction was not English.
    - Other documentation (tests, diplomas, other official documents) that demonstrate language abilities.

NOTE: The waiver form at: www.wku.edu/colonnade should be utilized to document school attendance or other documentation.

World Language for Returning Students

Students who began their college career as degree-seeking students during the 2004 summer term and thereafter will be required to take the second semester level or higher foreign language course.

Students who began their college career as degree-seeking students before the 2004 summer term are required to take one level of foreign language.

All degree-seeking students who have a catalog term through 2019-2020 and with two credits (or equivalent) of high school world language are considered to have fulfilled the world language proficiency requirement at WKU.

The revised Kentucky General Education Transfer Policy (2012) outlines the purpose and guidelines for the transfer of general education across Kentucky's public postsecondary institutions. WKU supports the policy. For more details see: http://cpe.ky.gov/policies/. In accordance with KRS 164.2951 an appeal process regarding statewide general education transfer credit is available. For more details see: http://www.wku.edu/admissions/transfer/documents/appeals_process.pdf.

Credit by Examination

Credit may be earned at WKU through the following examination programs: the Advanced Placement Program (AP), the American College Testing Program (ACT), the Scholastic Assessment Test (SAT), Cambridge International Examinations, the College Level Examination Program (CLEP), International Baccalaureate (IB), the Accounting Pilot and Bridge Project (APBP), and departmental examinations developed by WKU departmental faculty committees. The credit hours earned through these examinations will count toward graduation, but will not apply to WKU residence credit or be used to compute grade point averages since a letter grade will not be given. Additional information about the exams may be obtained by clicking on the underlined course title in the charts below.

Although students may receive credit hours through any of these seven programs, duplicate credit may not be earned. For example, a student who earns credit hours for English 100 through the AP program may not receive additional credit for English 100 on the ACT exam, on a departmental exam, or on the CLEP exams.

High school seniors should take CLEP and ACT or SAT examinations by February at the latest so the results may be available for use in selecting courses during the March or June Topper Orientation Program.

The Office of the Registrar notifies students of their eligibility for credit upon receiving an application for admission and the official test score report. Students will receive the credit during the first semester of enrollment.

Credit awarded for these exams will apply toward the WKU general education categories as indicated. For detailed information refer to the General Education section of the catalog. Credit for these exams will also apply toward the Kentucky Statewide General Education categories as indicated. The categories are: Communications Written (WC) and Oral (OC), Arts and Humanities (AH), Social and Behavioral Sciences (SB), Natural Sciences (NS), Natural Sciences Lab (SL) and Quantitative Reasoning (QR).

Advanced Placement Program (AP)

Students may earn college credit through the Advanced Placement Program of the College Board upon attaining the minimum score on the AP examination. The AP credit will not count toward WKU residence credit.

Official scores may be obtained on-line at www.collegeboard.com or by contacting AP Exams, PO Box 6671, Princeton, New Jersey 08541-6671, telephone (888)225-5427. The following code number should be used to have scores sent to WKU: AP-1901. Students will receive the credit during the first semester of enrollment.

AP Subject Examinations

AP Course	Minimum Score	Credit Hours	Equivalent WKU Course	Colonnade Program	Kentucky Statewide GEN ED Category
Art					
Art History	3	3	ART 105 or 106	E-AH	AH
	4+	6	ART 105 and 106	E-AH	AH
Studio Art – Drawing	3	3	ART 140		
	4+	6	ART 130 and 140		
Studio Art – 2D	3	3	ART 130		
	4+	6	ART 130 and 140		
Studio Art – 3D	3+	3	ART 131		
Biology					
Biology	3	3	BIOL 113	E-NS	NS
	4	4	BIOL 113 and 114	E-NS, SL	NS, SL
	5	6	BIOL 120 and 122	E-NS	NS
Capstone					
Seminar	3+	3	Lower level elective		
Research	3+	3	Lower level elective		
Chemistry					
Chemistry	3	3	CHEM 116 or CHEM 101	E-NS E-NS, SL	NS NS, SL
	4+	5 - 4	CHEM 120 (3), 121 (2), or CHEM 105 (3), 106 (1)	E-NS, SL E-NS, SL	NS, SL NS, SL
Computer Science					
Computer Science A	3+	4	CS 180		
Computer Science Principles	3+	3	Electives (3)		
Economics					
Macroeconomics	3+	3	ECON 203	E-SB	SB
Microeconomics	3+	3	ECON 202	E-SB	SB
English					
English Language and Composition	3+	3	ENG 100	F-WI	WC
English Literature and Composition	3	3	ENG 100	F-WI	WC
	4+	6	ENG 100 and ENG 200	F-WI F-AH	WC AH
Environmental Science					
Environmental Science	3+	3	ENV 280	E-NS	NS
			BIOL 280 or PH 280		

Foreign Language					
√ ***A minimum score of 3 in a Foreign Language exam will fulfill the World Language Proficiency requirement of the Colonnade Program.***					
Chinese Language and Culture	3	9	CHIN 101, 102, and 201	√	
	4	12	CHIN 101, 102, 201, and 202	√	
	5	15	CHIN 101, 102, 201, 202, and 301	√	
French Language and Culture	3	9	FREN 101, 102, and 201	√	
	4	12	FREN 101, 102, 201, and 202	√	
	5	15	FREN 101, 102, 201, 202, and 320	√	
German Language and Culture	3	9	GERM 101, 102, and 201	√	
	4	12	GERM 101, 102, 201, and 202	√	
	5	15	GERM 101, 102, 201, 202, and 330	√	
Italian Language and Culture	3	9	ITAL 101,102 and 3 hour ITAL lower level elective	√	
	4	12	ITAL 101, 102 and 6 hours ITAL lower level electives	√	
	5	15	ITAL 101, 102 and 6 hours ITAL lower level and 3 hour ITAL upper level electives	√	
Japanese Language and Culture	3	9	JAPN 101, 102, and 201	√	
	4	12	JAPN 101, 102, 201, and 202	√	
	5	15	JAPN 101, 102, 201, 202, and 3 hour JAPN upper level elective	√	
Latin	3	9	RELS 150 and 151, and 3 hour lower level elective	√	
	4	12	RELS 150 and 151, and 6 hours lower level electives	√	
	5	15	RELS 150 and 151, and 6 hours lower level electives, 3 hours of upper level electives	√	
Spanish Language and Culture	3	9	SPAN 101, 102 and 201	√	
	4	12	SPAN 101, 102, 201, and 202	√	
	5	15	SPAN 101, 102, 201, 202, and 371	√	
Spanish Literature and Culture	3	9	SPAN 101, 102 and 201	√	
	4	12	SPAN 101, 102, 201, and 202	√	
	5	15	SPAN 101, 102, 201, 202, and 374	√	
Geography					
Human Geography	3+	3	GEOG 110	E-SB	SB
Government					
Government and Politics: Comparative	3+	3	PS 260	E-SB	SB
Government Politics: United States	3+	3	PS 110	E-SB	SB

History					
European History	3	3	HIST 102	F-SB	SB
	4+	6	HIST 102 (3) and	F-SB	SB
			3 hour HIST lower level elective		
United States History	3	3	HIST 240 or HIST 241		
	4+	6	HIST 240 or HIST 241 and 3 hour HIST lower level elective		
World History	3	3	HIST 102	F-SB	SB
	4+	6	HIST 101 and 102	F-SB	SB
Mathematics					
Calculus AB	3+	4	MATH 136	F-QR	QR
Calculus BC	3	4	MATH 136	F-QR	QR
	4+	8	MATH 136 and MATH 137	F-QR	QR
Statistics	3+	3	MATH 183 or ECON 206	F-QR	QR
Music					
Music Theory	3	3	MUS 100		
	4+	6	MUS 100 and 101		
Physics					
Physics I	3	3	PHYS 101	E-NS, SL	NS, SL
	4	3 - 4	PHYS 101 (3) or PHYS 201 (4)	E-NS, SL	NS, SL
				E-NS, SL	NS, SL
	5	4	PHYS 231/232 or		
			PHYS 201	E-NS, SL	NS, SL
Physics II	3	4	PHYS 202		
	4+	4	PHYS 332/233 or 202		
Physics C – Mechanics	3	3	PHYS 101	E-NS, SL	NS, SL
	4	4	PHYS 231 and 232		
	5	5	PHYS 255 and 256	E-NS, SL	NS, SL
Physics C – Electricity and Magnetism	3-4	4	PHYS 332 and 233		
	5	5	Physics 265 and 266		
Psychology					
Psychology	3+	3	PSY 100 or PSYS 100	E-SB	SB

Accounting, Pilot and Bridge Project

Students may earn three hours of proficiency non-residence credit for successful completion of the high school Accounting Pilot and Bridge Project (APBP) course. Students who earn credit from the APBP exam will meet the prerequisite for the second introductory accounting course, ACCT 201 – Introductory Accounting-Managerial. Contact the Department of Accounting at Acct@wku.edu or (270) 745-3895 for more information.

ACT or SAT English and Math Proficiency Credit

The below WKU course and 3 credit hours are received with the ACT or SAT score in the designated test category. WKU does not require the written component on either exam. A student who earns credit for English 100 or Math 116 on the ACT or SAT may not receive additional credit for English 100 or Math 116.

WKU Course	ACT	SAT (Prior to March 2016)	SAT (March 2016)
English 100	≥ 29 English	≥ 650 Critical Reading	≥ 35 Writing and Language
Math 116	≥ 26 Math	≥ 590 Math	≥ 630 Math

Official ACT or SAT scores should be sent by the testing company to the Office of Admissions as part of the admissions process. ACT scores may be obtained by contacting ACT Records, P.O. Box 451, Iowa City, Iowa 52243, phone (319) 337-1313, or accessing on-line information at www.act.org. The following code number should be used to have scores sent to WKU: ACT-1562. SAT score information can be obtained by calling 1- 866-756-7346 or on-line at www.collegeboard.com. The following code number should be used to have scores sent to WKU: SAT-1901. The Office of Admissions will notify applicants who qualify for academic credit on the basis of the ACT/SAT scores.

Cambridge International Examinations

Cambridge International Examinations provides curriculum for High Schools at the advanced levels that offer learners a broad range of AS-level & A-level subjects. Students who participated in the Cambridge Advanced (AICE) program may be awarded Colonnade general education or other WKU credit. An official certifying AICE transcript is required. Evaluation of credit and recommendations are determined by the appropriate WKU academic discipline department.

The grade necessary to earn WKU credit, the corresponding course, and the credit hours which may be earned appear below. The acceptable grade for credit may vary between courses and the level of the exam taken. Credit hour equivalencies are reviewed annually by academic units.

AICE Exam	Exam Grade	WKU Course	WKU Credits	Colonnade Gen Ed
Business				
Business (AS-Level)	A, B, or C	BA 110	3	
Business (A-Level)	A, B, or C	BA 110 and MGT 201	6	
Chemistry				
Chemistry (AS-Level)	A or B	CHEM 101 or (CHEM 105/106 and 107/108) or CHEM 120/121	3 - 8	E-NS & E-SL
Chemistry (A-Level)	A or B	CHEM 101 or (CHEM 105/106 and 107/108) or (CHEM 120/121 and 222/223)	3 – 10	E-NS & E-SL
Economics				
Economics (AS-Level)	A, B, or C	ECON 150	3	E-SB
Economics (A-Level)	A, B, or C	ECON 202 and ECON 203	6	E-SB
English				
English Literature (AS-Level)	A, B, or C	ENG 200	3	F-AH
English Literature (A-Level)	A, B, or C	ENG 200	3	F-AH

French				
French Language (AS-Level)	A – E	FREN 201 and FREN 202	6	√
French Language (A-Level)	A – E	FREN 320 and FREN 321	6	√
Music				
Music (AS-Level)	A, B, or C	MUS 120	3	F-AH
Psychology				
Psychology (AS-Level)	A, B, or C	PSY 100	3	E-SB
Psychology (A-Level)	A, B, or C	PSY 100	3	E-SB
Sociology				
Sociology (A-Level)	A, B, or C	SOCL 100	3	E-SB
Spanish				
Spanish Language (AS-Level)	A-E	SPAN 201 and SPAN 202	6	√
Spanish Language (A-Level)	A-E	SPAN 370 and SPAN 371	6	√

NOTE: ECON 150 counts as Gen Ed but does not work for Gordon Ford College of Business Majors.

College Level Examination Program (CLEP)

The CLEP examinations may be taken each month at any national testing center, including the testing center at WKU. Information about CLEP may be obtained by writing CLEP, CN 6600, Princeton, New Jersey 08540-6600, or accessing on-line information at www.collegeboard.com, or by contacting the DELO Testing Center, Western Kentucky University, Bowling Green, Kentucky 42101, (270) 745-5122. The following code number should be used to have scores sent to WKU: CLEP-1901.

Students may register for CLEP examinations at WKU by contacting the DELO Testing Center or by going online to www.registerblast.com/wku.

Students applying to WKU should have their scores sent to the Office of Admissions. Students currently enrolled at WKU should request their scores be sent to the Office of the Registrar. The appropriate office will then notify applicants who qualify for academic credit.

Policies

1. A student who has completed a course or has received credit by examination at WKU or at another accredited college or universitymay not receive credit for a CLEP examination of similar content.
2. A student may not take a CLEP examination for credit after having taken a college course at a higher level in the same department (subject matter area).
3. A student may establish credit in all courses or areas in which he/she is able to demonstrate proficiency, provided he/she meets the University's residence requirements for graduation. The credit earned will not count toward WKU residence.
4. A student who fails to earn credit on a CLEP examination may not repeat the same examination within three months of the initial testing date.
5. A student may not repeat by proficiency testing a course which has been previously taken or failed at WKU or another accredited institution.

CLEP Subject Examinations

Subject Examinations	Minimum Score	Credit Hours	Equivalent WKU Course	Colonnade Program	Kentucky Statewide GEN ED Category
Composition and Literature					
American Literature	50-74	3	ENG 100 level elective		
American Literature	75+	3	ENG 391 or 392		
Analyzing and Interpreting Literature	50+	3	*Lower level elective		
College Composition	50+	3	ENG 100	F-WI	WC
College Composition Modular	50+	3	Lower level electives		
English Literature	50-74	3	ENG 100 level elective		
	75+	3	ENG 381 or ENG 382		
Humanities	50+	3	Arts and Humanities lower level elective	E-AH	AH
World Languages					
French Language	50-55	6	FREN 101 and 102	√	
	56-59	9	FREN 101, 102, and 201	√	
	60+	12	FREN 101, 102, 201, and 202	√	
German Language	50-55	6	GERM 101 and 102	√	
	56-59	9	GERM 101, 102, and 201	√	
	60+	12	GERM 101, 102, 201, and 202	√	
Spanish Language	50-57	6	SPAN 101 and 102	√	
	58-62	9	SPAN 101, 102, and 201	√	
	63+	12	SPAN 101, 102, 201, and 202	√	
History and Social Sciences					
American Government	50+	3	PS 110	E-SB	SB
History of the United States I	50+	3	HIST 240		
History of the United States II	50+	3	HIST 241		
Human Growth and Development	50+	3	PSY 220 or PSYS 220	E-SB	SB
Introductory Educational Psychology	50+	3	Electives (lower level)		
Introductory Psychology	50+	3	PSY 100 or PSYS 100	E-SB	SB
Introductory Sociology	50+	3	SOCL 100	E-SB	SB
Social Sciences and History	50+	3	Social and Behavioral Science lower level elective	E-SB	SB
Western Civilization I (to 1648)	50+	3	HIST 119 or HIST 101	F-SB	SB
Western Civilization II (1648-present)	50+	3	HIST 120 or HIST 102	F-SB	SB

*Students may earn English 200 credit by passing a departmental exam; go to https://www.wku.edu/heretohelp/testing.php.

Science and Mathematics					
Biology	50+	3	BIOL 113	E-NS	NS
Calculus	50-54	4	MATH 136	F-QR	QR
	55+	4	MATH 137		
Precalculus	50-59	3	MATH 116	F-QR	QR
	60+	4	MATH 136	F-QR	QR
Chemistry	50+	5	CHEM 120 and 121	E-NS, SL	NS, SL

Subject Examinations	Minimum Score	Credit Hours	Equivalent WKU Course	Colonnade Program	Kentucky Statewide GEN ED Category
College Algebra	50-51	3	MATH 116	F-QR	QR
	52+	3	MATH 117	F-QR	QR
College Mathematics	50+	3	MATH 109	F-QR	QR
Natural Sciences	50+	3	ENV 280	E-NS	NS
			BIOL 280 or PH 280		
Business					
Financial Accounting	50+	3	ACCT 200		
Information Systems	50-57	3	Elective		
	58+	3	CIS 141		
Introductory Business Law	50+	3	MGT 301		
Principles of Macroeconomics	50+	3	ECON 203	E-SB	SB
Principles of Microeconomics	50+	3	ECON 202	E-SB	SB
Principles of Management	50+	3	MGT 210		
Principles of Marketing	50+	3	MKT 220		

International Baccalaureate

Western Kentucky University recognizes the International Baccalaureate (IB) program completed in high school. Credit will be awarded by earning the required score in a specific subject, and awarded as non-residence credit. To receive credit the student must furnish an official IB transcript to the Office of Admissions issued directly from the New York office of the International Baccalaureate Organization. Specific information about required scores and credit may be obtained from the Office of Admissions website (www.wku.edu/international/ib.php).

IB Subject	IB Level	Minimum Score	Credit Hours	WKU Equivalent Course (2017-18)
Language and Literature				
Language A: Literature	SL	5	3	ENG 200
	HL	5	3	ENG 200
Language A: Language and Literature	SL	5	3	ENG 100
	HL	5	3	ENG 100
Language Acquisition (ab initio is for beginners; B for previous experience learners)				
Arabic	SL	4	9	ARBC 101, 102 & 201
	SL	5	12	ARBC 101, 102, 201 & 202
	HL	4	12	ARBC 101, 102, 201 & 202
	HL	5	15	ARBC 101, 102, 201, 202, & 301
Chinese	SL	4	9	CHIN 101, 102 & 201
	SL	5	12	CHIN 101, 102, 201 & 202
	HL	4	12	CHIN 101, 102, 201 & 202
	HL	5	15	CHIN 101, 102, 201, 202 & 301
French ab initio	SL	4+	6	FREN 101 and 102
French	SL	4	9	FREN 101, 102 & 201
	SL	5	12	FREN 101, 102, 201 & 202
	HL	4	12	FREN 101, 102, 201 & 202
	HL	5	15	FREN 101, 102, 201, 202 & 321

German ab initio	SL	4	6	GERM 101 and 102
German	SL	4	9	GERM 101, 102 & 201
	SL	5	12	GERM 101, 102, 201 & 202
	HL	4	12	GERM 101, 102, 201 & 202
	HL	5	15	GERM 101, 102, 201, 202 & 330
Latin	SL	5	6	RELS 150 and 151
	HL	5	6	RELS 150 and 151
Spanish ab initio	SL	4	6	SPAN 101 and 102
Spanish	SL	4	9	SPAN 101, 102 & 201
	SL	5	12	SPAN 101, 102, 201 & 202
	HL	4	12	SPAN 101, 102, 201 & 202
	HL	5	15	SPAN 101, 102, 201, 202 & 370
Individuals and Societies				
Business Management	SL	5	3	MGT 201
	HL	5	3	MGT 201
Global Politics	SL	5+	3	PS 250
	HL	5+	3	PS 260
History	SL	4	3	Lower division elective in history major or lower division general elective
	HL	4	3	
Information Technology in a Global Society	SL	4	3	CIS 141
	HL	4	3	CIS 141
Psychology	SL	4	3	PSY 100
	HL	4	3	PSY 100
Social and Cultural Anthropology	SL	4	3	ANTH 120
	HL	4	3	ANTH 120
Sciences				
Biology	SL	5+	3	BIOL 113
	HL	5+	3	BIOL 120
Chemistry	SL	5+	4	CHEM 105 and 106
	HL	5+	5	CHEM 120 and 121
Computer Science	SL	4	3	Lower division elective
	HL	5	3	Lower division elective
Environmental Systems and Societies	SL	4	3	ENV 280
Physics	SL			
	HL	5	3	ASTR 108
Mathematics				
Further Mathematics	HL			
Mathematical Studies	SL	5	3	Math 116
Mathematics	SL			
	HL	5	9.5	Math 126, 227
Arts				
Visual Arts	SL	4	3	ART 130
	HL	5	6	ART 130, 140

Departmental Credit By Examination

Students enrolled at WKU may also receive credit on the basis of departmental examinations, also called departmental comprehensive proficiency assessments. A student may take a departmental comprehensive proficiency assessment in any course listed as satisfying a requirement in any of the categories of general education. Departments may offer departmental comprehensive proficiency assessments in other courses at their discretion.

To assess student proficiency, a department may adopt either a standardized examination available from outside the University or develop an appropriate comprehensive proficiency examination within the department by means of a faculty committee. Departmental comprehensive proficiency assessments may be written, oral or both.

To be eligible to take a departmental comprehensive proficiency assessment, a student must be fully matriculated, in good standing, and regularly enrolled at WKU. Credits earned in this manner will be recorded on the student's official transcript as non-residence credit but will not be considered as a part of the normal semester load in the term in which the examination is taken. A student may not register for a departmental comprehensive proficiency assessment for a course while he or she is enrolled in that course. A student may not take a departmental comprehensive proficiency assessment in a course which has been previously taken at WKU or at another accredited institution.

A student desiring to take a departmental comprehensive proficiency assessment must complete an appropriate request form in the Office of the Registrar. A fee of $25 per credit hour must be paid at the time the form is submitted. The form must be submitted to the Registrar prior to the end of the third week of classes in either the fall or spring semesters. The Registrar will notify the appropriate department of the student's request. The department will administer the comprehensive proficiency assessment during the seventh week of classes. The student must obtain the specific time and place for testing from the department head.

After the assessment has been completed, the department head will notify the Registrar in writing as to whether or not the student demonstrated acceptable proficiency. If the department recommends credit be granted, the semester hours earned will be recorded on the official transcript. However, the credit will not be used in computing the grade point average since letter grades will not be assigned.

Military Service Credit

WKU strives to be a military friendly institution that will provide military personnel the ability to attend WKU and receive college credit for formal courses and primary occupations offered while in the military. WKU awards college credit based on the American Council on Education (ACE) Guide recommendation, and the credit will count as non-residence credit. Active duty soldiers or military veterans are required to submit official military transcripts prior to admission. Any soldier who is retired or discharged from the military will be required to submit their official military transcripts and a copy of the DD form 214 (Certificate of Release or Discharge from Active Duty of Service) member copy 4. The DD 214 must have characterization of service listed on the form. The DD 214 Form may be requested at http://www.archives.gov/veterans/military-service-records/. Official military transcripts may be requested at https://jst.doded.mil/.

Prior Learning Assessment

Students who have acquired extensive college-level knowledge and skills in academic areas including but not limited to employment, military experience, civic activities, volunteer service, organizational training or workshops, or other non-traditional means may be granted credit for the knowledge and skills they have gained through nationally standardized exams (AP, CLEP, IB, ACE, etc.), departmental assessments, or portfolio development and evaluation. This policy focuses on portfolio development and evaluation, while referencing national and departmental assessments when appropriate.

Prior learning by portfolio evaluation is considered an opportunity for students to demonstrate their knowledge and is not a guarantee of credit for experience. Students will complete a portfolio of their prior learning as a part of a portfolio development course, IDST 250, taught by an instructor who has undergone training by the Council for Adult and Experiential Learning (CAEL). Please note: the credits earned in IDST 250 will count toward residence, while the prior learning credit awarded will be treated as nonresidence credit. The portfolio, with varying forms of documents, will tie content learning outcomes to the knowledge and skills students have acquired through experiential learning. Credit earned will depend upon the student's ability to produce a portfolio that communicates learning outcomes consistent with the WKU mission on the level expected for the credit sought. Before registering for this course, students will consult with the instructor to evaluate the feasibility of seeking credit in a particular area.

The student will identify a maximum of two content areas for which credit is being sought, and his or her portfolio will be submitted to two full-time WKU faculty members, at least one from each area for which the student is seeking credit, upon successful completion of the course. These faculty experts will review the portfolio and determine if and how much academic credit is to be granted, as well as whether the credit should be given for a specific course, or for non- course-specific credit.

The consensus recommendation of the reviewers must be approved by the department head(s) and dean(s) of the college(s) concerned, and then will be forwarded to the Office of the Registrar to transcript recommended credit.

The portfolio development course, IDST 250, may be repeated for a maximum of three credits. The total number of Prior Learning credits applied toward a WKU credential cannot exceed a quarter of the total hours in the credential. For additional information, please contact: School of Professional Studies at (270) 745-8973 or visit www.wku.edu/pla.

Transfer of Credits

Undergraduate Transfer Policies
Students transferring to WKU are required, as a part of the admission process, to provide the Office of Admissions with official transcripts from all previously attended institutions.

Credits earned at other accredited American institutions of higher education may be transferred to WKU and applied toward a degree. The "Transfer Credit Practices" report published by the American Association of Collegiate Registrars and Admissions Officers will be the reference used for the evaluation of such credits.

Students who previously earned course credit from a non-regionally accredited institution may petition for recognition of that credit. Consideration will be given to courses whose content suggests competencies at least equivalent to courses offered by WKU. For more information see: http://www.wku.edu/admissions/transfer/transfercredit.php.

Courses completed at a baccalaureate degree granting institution will be accepted for transfer credit at the level of the equivalent WKU course. Courses completed at a community or junior college will transfer to WKU as lower division credit only, even if WKU offers a comparable course at the upper division.

Acceptance of transfer credits for a particular major, minor or certificate is subject to approval by the appropriate academic department.

WKU accepts transfer grades, and those grades will be recorded onto the WKU transcript and computed into the student's overall GPA. Transfer work submitted will be equated to our internal scale and denoted as such on your record. Some academic departments require a minimum grade of "C" in each course applicable toward a major. Refer to the departmental descriptions in this catalog or contact the department head to determine the specific requirements for each major. Credit for a course in which a failing grade has been received can be earned only by repeating the course in residence unless prior written approval is granted by the head of the department in which the course is offered.

When a transcript from an accredited institution records credit granted for educational experiences; such as, credit by exam, advanced placement, prior learning credit, dual credit high school work, the credit will generally be accepted in transfer, except for developmental coursework, which WKU does not accept for degree credit.

The student's academic department will decide how and whether the credit applies to degree requirements for a particular major, minor, or certificate. WKU supports the CPE policy which outlines acceptable AP and CLEP scores; for the complete policy see: http://cpe.ky.gov/policies/, for a list of WKU AP/CLEP equivalencies see: https://www.wku.edu/registrar/documents/creditbyexam.pdf.

Graduation honors (e.g., *cum laude*) are based upon students earning a minimum of 45 hours in residence for baccalaureate degrees and a minimum of 27 hours in residence for associate degrees.

The minimum residence requirement for the baccalaureate degree and associate degree is 25% of the minimum number of semester hours required in the student's degree program must be earned through instruction at WKU. At least one-third of the hours in the major and minor must be earned at WKU.

Kentucky General Education Transfer Policy
The Kentucky General Education Transfer Policy (2012) provides guidelines for the transfer of general education coursework between Kentucky public postsecondary institutions. The policy guarantees that if a student completes an associate (AA or AS) degree or some general education coursework at a KCTCS college, any Kentucky public university will accept their general education credits as meeting lower-division general education requirements.

The transfer of general education credits is predicated on the acquisition of competencies in broad academic areas, rather than a comparison of individual courses taken at one institution or another.

The five broad categories are: 1) Arts and Humanities (AH), 2) Communications: Written Communication (WC) and Oral Communication (OC), 3) Natural Sciences: (NS), plus Science Lab (SL), 4) Quantitative Reasoning (QR), and 5) Social and Behavioral Sciences (SB).

The sending institution will indicate, either on the transcript or as an attachment to the transcript, whether the student is Fully Certified, Core Certified, or Category Certified in general education, or if they have completed any of the coded general education courses (i.e., AH, NS, OC, QR, SB, SL, and WC) at their institution.

- **Fully Certified** – All general education requirements are completed (AA and AS degrees guarantee full certification).
- **Core Certified** – The 30 hours of core general education is completed, and remaining general education requirements of the receiving institution are still required.
- **Category Certified** – One or more of the above categories is complete (e.g., AH Category Certified is interpreted as no additional courses are required in the AH category).
- **Course Certified** – The category is not complete, but a course in that category applies to that category.

Questions pertaining to the Kentucky General Education Transfer Policy should be directed to the Transfer Center, Downing Student Union 2135, (270) 745-2178 or Transfer@wku.edu. The full CPE General Education Transfer Policy can be viewed: http://cpe.ky.gov/policies.

General Education Transfer Policy from States other than Kentucky
Students who complete an associate degree containing 30 unduplicated semester credit hours of General Education (typically an Associate of Arts [AA] or an Associate of Science [AS] from a regionally accredited institution outside Kentucky are considered to have fulfilled all WKU Colonnade General Education requirements. These credit hours are to be drawn from and include at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural science/mathematics.

General Education Transfer Policy for Institutions That Close
Students who complete all General Education requirements containing 30 unduplicated semester credit hours toward a Bachelor's degree from a regionally accredited institution that is closing or has closed are considered to have fulfilled all WKU Colonnade General Education requirements. These credit hours are to be drawn from and include at least one course from each of the following area: humanities/fine arts, social/behavioral sciences, and natural science/mathematics.

Transfer Student Services
Upon admission and receipt of all transcripts, the student's transfer credit will be recorded into the University's student information system and will be available online at www.topnet.wku.edu and in iCAP, WKU's automated degree audit system. Students and academic advisors may view course articulation (or equivalency) on iCAP prior to the student's participation in the Topper Orientation Program. The iCAP report serves as official assignment of credits to WKU Colonnade General Education Requirements; however, acceptance of transfer credits for a particular major, minor or certificate is subject to approval by the appropriate academic department.

Students may petition WKU departments to determine if a course should be equivalent to a WKU course. The petition form may be obtained online at https://www.wku.edu/transfer/transferpetition.php.

Transfer Academic Plans
To assist associate degree recipients in understanding the courses needed to complete a baccalaureate degree at WKU, a variety of Transfer Academic Pathway Plans have been established. A list of the specific degree programs and pathway plans are available at http://www.wku.edu/academicaffairs/pd/transfer_students.php. In addition, there are statewide transfer plans on the KnowHow2Transfer site: www.knowhow2transfer.org/

Formal Articulation Agreements
Formal articulation agreements are mutually beneficial partnerships with colleges and universities developed to match coursework between institutions to help students make a smooth transition from other institutions. These agreements specify how transfer credit will be applied toward general education or other degree requirements. WKU's formal articulation agreements are available at: http://www.wku.edu/academicaffairs/pd/articulation.php.

International Transfer Credit
Transfer credit from foreign educational institutions may be granted after a determination of the type of institution involved, its recognition by the educational authorities of the foreign country, and an evaluation of the content and level of the courses. Extensive use is made of professional references which describe the educational systems and programs of individual countries.

Students who have attended an educational institution located outside of the United States will need to request all schools attended to send the official transcript(s) directly to Western Kentucky University. Some educational institutions do not issue transcripts to other schools; instead they issue transcripts or the original certificate/mark sheet to students. In this case, students must make a photocopy of the original transcript/certificate/mark sheet and have the school attended (or a certified translation service firm) certify/attest that the photocopy is a true copy of the original document. Consulates and embassies often serve as a resource for the attestation of educational documents. Students on WKU's campus may bring the original transcript(s) or document(s) to the International Admissions Office for review and verification. For more information, contact iem@wku.edu.

WKU Students who Study Abroad
Transfer credit is awarded upon receipt of an official transcript from an international institution, only if the study abroad experience was pre-approved by the Office of Study Abroad and Global Learning. Transfer credit will be converted to semester hours, and all courses and grades are transferred. Additional information is available at https://www.wku.edu/studyabroad/academic_credit.php.

WKU Students who Enroll Elsewhere
WKU students occasionally enroll in courses at other institutions, usually during the summer term or through the "Study Away" program. Prior to such enrollment, students should access the online transfer equivalency guide available through the Transfer Center website (see View Transfer Credit Equivalencies on: http://www.wku.edu/transfer/transferhow.php.) This site provides the exact equivalency by course between institutions, if the course has been articulated. Approval for credits to be applied to WKU Colonnade General Education Requirements is provided by the Coordinator of Transfer Articulation within the Transfer Center, and will appear on TopNet and the iCAP reports. Approval for transfer courses to be applied to a major, minor, or other programs should be obtained from the appropriate academic department.

Questions pertaining to transfer policies, services or procedures should be directed to the Transfer Center, Downing Student Union 2135, (270) 745-2178, Transfer@wku.edu, or post the question(s) electronically at: http://www.wku.edu/admissions/forms/inforequest.php.

Academic Definitions

Academic Program – combination of courses and related activities organized for the attainment of broad educational objectives that lead to a certificate or diploma or an associate's, bachelor's, master's, specialist, or doctoral degree (CPE, 2011).

Degree – is an award conferred by a postsecondary education institution as official recognition for the successful completion of an academic program (CPE, 2011).

Associate's Degree – is an award that normally requires at least 60 semester credit hours or the equivalent (CPE, 2011).

Bachelor's Degree – is an award that normally requires at least 120 semester credit hours or the equivalent. This includes all bachelor's degrees conferred in a five-year cooperative (work-study) program and degrees in which the normal four years of work are completed in three years (CPE, 2011).

Undergraduate (pre-baccalaureate) Certificate – is a sub-baccalaureate credential granted upon satisfactory completion of a series of courses related to a specific topic or skill. It has the primary purpose of providing marketable, entry-level skills (CPE, 2011).

Major – is a primary area of study defined by a set of course and / or credit hour requirements within a specified discipline or with a clearly defined multi-disciplinary focus (CPE, 2011).

Minor – is a secondary area of study that is separate from the major and is defined by a set of course and/or credit hour requirements within a specified discipline or with a clearly defined multi-disciplinary focus (CPE, 2011).

Concentration – is a set of courses designed to develop expertise within a major (CPE, 2011). The Kentucky Council on Postsecondary Education (CPE) defined specific terminology for a set of courses designed to develop expertise within a major, and the term varies by degree level. Track is the specified term at the undergraduate level, Concentration at the master's level, and Specialization at the doctoral level. Tracks, Concentrations, and Specializations are noted in the WKU catalog, TopNet, iCAP, and on the WKU transcript as "Concentration."

Footnote: The Kentucky Council on Postsecondary Education approves new academic programs and in 2017 developed a New Academic Programs: Policy and Procedures. Within the new policy are definitions are noted above. For more details see: http://cpe.ky.gov/policies/academicprograms.html.

Academic Programs

Baccalaureate Degrees—Western Kentucky University confers seven baccalaureate degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Interdisciplinary Studies, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science in Nursing, and Bachelor of Social Work. To determine the degree awarded upon the completion of a specific program of study, consult the chart found under "Major Programs of Study" on the following pages.

AB (Artium Baccalaureus / Bachelor of Arts) degrees typically emphasize the social sciences, arts, humanities, and foreign languages. The degree is intended to advance student understanding of human culture through examination of historical, social, religious and political contexts; analysis of ideas; appreciation of art and creative endeavors; knowledge of philosophical theories; and achievement of language competency. AB requirements typically promote broad preparation within a discipline.

BS (Bachelor of Science) degrees typically emphasize the natural sciences, mathematics and technology. The degree is intended to advance student preparation in reasoning, analysis, experimentation and the application of scientific principles in problem-solving consistent with professional or technical preparation. BS requirements typically promote depth of preparation within a discipline.

BIS (Bachelor of Interdisciplinary Studies) provides an alternative baccalaureate degree program for students who do not need or desire the academic specialization involved in traditional major or major/minor programs. This degree program allows considerable latitude and flexibility to satisfy individual interests and needs.

BFA (Bachelor of Fine Arts) is the initial professional degree in fine arts. It prepares students for a professional studio practice through an intensive artistic and academic experience. Students develop strong personal concepts along with technical proficiency creating a cohesive body of work on which to base an individual, sustainable studio practice.

BM (Bachelor of Music) provides intensive study in music leading to three distinct P-12 teaching certifications (vocal, instrumental, integrated) or a performance degree that supports private studio teaching or graduate study.

BSN (Bachelor of Science in Nursing) is an entry-level degree for professional nursing. It prepares the graduate to be a professional nurse who can practice in a variety of settings and who has the knowledge base to pursue graduate study in nursing.

BSW (Bachelor of Social Work) is the only undergraduate major that educates students to be professional social workers. BSW graduates are prepared for immediate entry into direct human service professional positions. They possess the intellectual, practical and professional skills needed to promote beneficial change in the lives of their clients.

A baccalaureate degree requires a minimum of 120 unduplicated semester hours, according to one of the following options:

- Students with a major that is 48 hours or more are not required to declare a second major or minor, unless specified by the department.
- Students with a major below 48 hours must select a second major or minor. Student who select a major and minor combination must have 54 hours total between the major and minor and 48 hours unduplicated.
- Students pursing the Bachelor of Interdisciplinary Studies are required to select an emphasis of study and may also select a minor. No hours may be duplicated between the emphasis and minor.
- A certificate of 12 or more semester credit hours may substitute for "minor" in all the above.

A baccalaureate degree candidate with a double major will receive one degree; the degree will be associated with the student's declared first major. Students may pursue concurrent (dual) degrees, as specified in the section entitled "Concurrent and Subsequent Degrees."

A minor is a secondary course of study as defined by the CPE (previous page). The minimum duration of a minor varies, but may not be less than 18 semester credit hours. Approved majors and minors are listed on the following pages. Any specific admission or course requirements may be found in the college or departmental section of this catalog.

In addition to one of the above options, each student must complete a minimum of 39 semester hours of general education courses and electives to total the minimum of 120 unduplicated semester hours. For details refer to the section of this chapter on "Colonnade Requirements." Since some programs are non-teacher certifiable, students seeking teacher certification should consult the Teacher Education Programs portion of this catalog for a list of certifiable programs and the required professional education courses.

Associate Degrees—Western Kentucky University confers four associate degrees: Associate of Arts, Associate of Science, Associate of Science in Nursing and Associate of Interdisciplinary Studies. To determine the degree awarded upon the completion of a specific program of study, consult the chart found under “Major Programs of Study” on the following pages.

Certificate Programs—Western Kentucky University offers a variety of short-term programs that lead to a certificate in a specialty area. Certificates typically comprise at least twelve semester credit hours. Exceptions to this minimum may be granted only where a circumscribed body of expertise with the potential to materially affect employability may be covered in fewer than 12 semester credit hours. The list of certificate programs can be found near the end of the following chart.

Baccalaureate Programs of Study

[M] = Minor or Second Major required
♦ = Minimum hrs. for degree exceeds 120 hrs.
+ = Additional Professional Education Courses Required

Department Major	Concentrations	Reference Number	Minimum Major Hrs.	Degree	Advisor Name	Office	Phone Number	Page #
POTTER COLLEGE OF ARTS & LETTERS								
Department of Art								
Art History [M]		613	36	A.B.	Jordan	FAC 413	58865	76
Visual Arts (seeking admission)		514P			Arnold	FAC 441	56566	74
Visual Arts (officially admitted)		514		B.F.A.				
	ARGD – Graphic Design		73		Tullis	FAC 400	55930	
					Tyree	FAC 423	53362	
	ARST – Studio		79		Arnold	FAC 441	56566	
Visual Studies		509		A.B.				75
	♦ARED – Art Education		66+		Choe	FAC 439	57052	
	ARSO – Studio Art		49		Arnold	FAC 441	56566	
Department of Communication								
Advertising (seeking admission) [M]		727P						
Advertising (officially admitted) [M]		727	36	A.B.	Haynes	JRH 230	53296	79
Communication Studies (seeking admission) [M]		792P						
Communication Studies (officially admitted) [M]		792	36	A.B.	Crawley	FAC 106	55542	79
Corporate and Organizational Communication [M] *(seeking admission)*		522P						
Corporate and Organizational Communication [M] *(officially admitted)*		522	36	A.B.	Crawley	FAC 106	55542	80
Popular Culture Studies [M]		758	31	A.B.	Hoffswell	FAC 145	53296	81
Public Relations (seeking admission) [M]		763P						
Public Relations (officially admitted) [M]		763	36	A.B.	Witcher	FAC 196	53452	81
Diversity and Community Studies								
Diversity and Community Studies [M]		631	33	A.B.	Branham	WSC House	52943	83
Department of English								
English [M]		662		A.B.				86
	ENCW – Creative Writing		42		Brown	CH 7b	55759	
	ENLT – Literature		42		Langdon	CH 116	55708	
	ENPW – Professional Writing		42		Rice	CH 16C	55998	
♦*English for Secondary Teachers*		561	54+	A.B.	Otto	CH 109F	55710	87
Department of Folk Studies and Anthropology								
Anthropology [M]		608	30	A.B.	Applegate	FAC 237	55898	89
	ANAR – Archaeology							
	ANBA – Biological Anthropology							
	ANCA – Cultural Anthropology							
	ANCR – Cultural Resource Management							
Department of History								
History [M]		695	33	A.B.	Van Dyken /	CH 230A	52994	91
					Walton-Hanley	CH 214	56959	
Social Studies		592	60	A.B.	Van Dyken/	CH 230A	52994	93
					Walton-Hanley	CH 214	56959	
School of Journalism & Broadcasting								
Broadcasting (seeking admission) [M]		726P			Alicie	JRH 212	56988	96
Broadcasting (officially admitted) [M]		726	45	A.B.	Pfranger	JRH 340	56497	
Film (seeking admission) [M]		667P			Alicie	JRH 212	56988	97
Film [M] *(officially admitted)* [M]		667	42	A.B.	Newton	JRH 336	55890	
Journalism (seeking admission) [M]		736P			Alicie	JRH 212	56988	97
Journalism (officially admitted) [M]		736	42	A.B.	McKerral	JRH 222	55882	
Photojournalism (seeking admission) [M]		750P			Alicie	JRH 212	56988	98
Photojournalism (officially admitted) [M]		750	45	A.B.	Kenney	JRH 116	56307	

Department Major	Concentrations	Reference Number	Minimum Major Hrs.	Degree	Advisor Name	Office	Phone Number	Page #
Department of Modern Languages								
Arabic [M]		609		A.B.	DiMeo	FAC 276	52401	101
	ARLC − Arabic Language and Culture		36					
	ARBS − Arabic for Business		39					
	ARIS − Arabic for International Service		39					
	ARJR − Arabic for Journalism		39					
	TCHR – Teacher Certification		73					
Chinese [M]		624	36	A.B.	Peng	FAC 163	52401	102
	TCHR – Teacher Certification		73					
French [M]		665	36	A.B.	Egloff	FAC 274	55905	104
	TCHR – Teacher Certification		73					
German [M]		683	36	A.B.	McGee	FAC 251	55900	104
	TCHR – Teacher Certification		73					
Spanish [M]		778	36	A.B.	Pertusa	FAC 231	52401	105
	TCHR – Teacher Certification		73		Zapata	FAC 270	55102	
Department of Music								
Music		593		B.M.				108
	♦MUED – Music Ed – Instrumental P-12		69+		Schallert	MH 207	55893	
					Bright	MH 204	54024	
	♦MUIN – Music Ed – Integrated P-12		74+		Stites	FAC 335	54388	
	♦MUEV – Music Ed – Vocal P-12		69+		Pope	FAC 341	55920	
	MUP2 – Instrumental Performance		70		Kelly	FAC 322	52682	
	MUP1 – Vocal Performance		72		Kelly	FAC 322	52682	
Music (Liberal Arts)		583		A.B.				109
	MUMM – Music General		36		Martin	FAC 339	56890	
					Cipolla	FAC 358	57093	
	MUSE – Music Extended		48		Martin	FAC 339	56890	
					Cipolla	FAC 358	56890	
Department of Philosophy and Religion								
Asian Religions and Cultures [M]		615	31	A.B.	Samuels	CH 300	55748	113
Philosophy [M]		745	31	A.B.	Samuels	CH 300	55744	113
Religious Studies [M]		769	31	A.B.	Samuels	CH 300	55744	113
Department of Political Science								
International Affairs [M]		702	51	A.B.	Murphy	GH 308	52890	116
Paralegal Studies		5002	60	A.B.	Shadoan	TPH 256	52539	117
Political Science [M]		686	33	A.B.	Lasley	GH 304	52799	115
Department of Sociology								
Criminology [M]		627	34	A.B.	Smith	GH 126	53750	123
Sociology [M]		775	31	A.B.	Smith	GH 126	53750	123
	SCED – Community, Environment, & Development							
	SFGS – Family, Gender, & Sexuality							
	SISC – Inequality and Social Change							
	SORM – Research Methods							
Department of Theatre and Dance								
Dance [M] *(seeking admission)*		630P			Young	GW 300A	55873	126
Dance [M] *(officially admitted)*		630	45	A.B.	Young	GW 300A	55873	
Performing Arts (seeking admission)		588P			Young	GW 300A	55873	127
Performing Arts (officially admitted)		588	74	B.F.A.	Young	GW 300A	55873	
	PACT – Acting							
	PDIR – Directing							
	PAMT – Music Theatre							
	PDES – Theatre Design and Technology							
Theatre [M]		798	45	A.B.	Young	GW 300A	55845	122
Interdisciplinary Programs								
Honors Self-Designed Studies [M]		633/634	28	A.B./B.S.	Keller	HCIC 1034	53171	356
Honors Self-Designed Studies		566/539	28	A.B./B.S.	Keller	HCIC 1034	53151	356
GORDON FORD COLLEGE OF BUSINESS								
Department of Accounting								
Accounting (seeking admission)		602P			Jordan	GH 449	53290	134
Accounting (officially admitted)		602	73	B.S.	Little	GH 501	53895	

Department Major	Concentrations	Reference Number	Minimum Major Hrs.	Degree	Advisor Name	Office	Phone Number	Page #
Department of Economics								
Business Economics (seeking admission)		724P			Jordan	GH 449	53290	137
Business Economics (officially admitted)		724	73	B.S.	Lebedinsky	GH 432	52240	
Economics (seeking admission) [M]		638P			Jordan	GH 449	53290	136
Economics (officially admitted) [M]		638	37	A.B.	Lebedinsky	GH 432	52240	
Mathematical Economics (seeking admission)		731P			Jordan	GH 449	53290	137
Mathematical Economics (officially admitted)		731		B.S.	Lebedinsky	GH 432	52240	
	MEAS–Actuarial Science		61-62					
	MEGM–General Mathematical Economics		49					
Department of Finance								
Finance (seeking admission)		664P			Jordan	GH 449	53290	138
Finance (officially admitted)		664		B.S.	Chhachhi	GH 334	52018	
	FNBF – Business Finance		73					
	FNPP – Personal Financial Planning		79					
Department of Information Systems								
Business Data Analytics (seeking admission)		504P			Jordan	GH 449	53290	141
Business Data Analytics (officially admitted)		504	72	B.S.	Blankenship	GH 231	55409	
Department of Management								
Entrepreneurship (seeking admission)		542P			Jordan	GH 449	53290	143
Entrepreneurship (officially admitted)		542	70	B.S.	Bolton	GH 200	55408	
International Business (seeking admission)		569P			Jordan	GH 449	53290	144
International Business (officially admitted)		569	73	B.S.	Potter	GH 200	55408	
Management (seeking admission)		723P			Jordan	GH 449	53290	142
Management (officially admitted)		723	73	B.S.	Potter	GH 200	55408	
	MBUS – Business Administration							
	MGHP – Human Resources/Personnel Management							
Department of Marketing								
Marketing (seeking admission)		720P			Jordan	GH 449	53290	147
Marketing (officially admitted)		720	73	B.S.	Todd	GH 402	52249	
	MKGM – Strategic Marketing							
	MKSA – Marketing Sales							
	MKSM – Social Media Marketing							
COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCES								
School of Teacher Education								
♦*Business and Marketing Education*		621	82	B.S.	McDonald	GRH 2084	53097	155
♦*Elementary Education*		527	82	B.S.	Jukes	GRH 1012	54485	153
Interdisciplinary Early Childhood Education		526		B.S.	Guyton	GRH 1099	2588	157
	IECE – Non-Teacher Certification		69					
	TCHR – Teacher Certification		76					
Middle Level Education in Social Studies and Language Arts		5001		B.S.	Moore	GRH 1102	55415	154
	MELA – Middle Level Education Language Arts/ Communication single area certification		70					
	MESD – Middle Level Education Social Studies/ Language Arts dual certification		91-94					
	MESS – Middle Level Education Social Studies single area certification		73-76					
Science and Mathematics Education [M]		774	37	B.S.	Pesterfield	SKyTeach 101	56246	156
♦*Special Education: Learning & Behavioral Disorders and Elementary Education*		5003	88	B.S.	Kirby	GRH 1087	53746	157
Department of Military Science and Leadership								
Military Leadership [M]		733	36-42	B.S.	MacMillin	DA 1512	54293	160
Department of Psychology								
Psychology – General Major [M] *(seeking admission)*		760P			Wininger	GRH 3016	54421	161
Psychology – General Major [M] *(officially admitted)*		760	34	A.B.	Wininger	GRH 3016	54421	
	PSFP – Forensic Psychology [M]		40					
	PSSP – Sport Psychology		53					

Department Major	Concentrations	Reference Number	Minimum Major Hrs.	Degree	Advisor Name	Office	Phone Number	Page #
School of Professional Studies								
Interdisciplinary Studies		558	36	B.I.S.		TPH 275	58973	163
	GSAR – Arts							
	GSBU – Business							
	GSED – Education							
	GSHE – Health							
	GSHU – Humanities							
	GSMS – Military Studies							
	GSCO – Organization & Communication of Ideas							
	GSSC – Science							
	GSSB – Social & Behavioral Science							
	GSSJ – Social Justice & Equity Studies							
	GSSU – Sustainability							
	GSTE – Technology							
Organizational Leadership (seeking admission)		545P						
Organizational Leadership (officially admitted)		545	48	B.S.		TPH 227	58973	164
Workforce Administration (seeking admission)		739P						
Workforce Administration (officially admitted)		739		B.S.	Ghezal	TPH 227	58973	164
	SMAS – Administrative Systems		48					
	SMAG – Agricultural Systems		48					
	SMCS – Criminology Systems		48					
	SMDM – Digital Media Technologies		48					
	SMFR – Fire/Rescue Administration		48					
	SMGI – Geographic Information Systems		48					
	SMGS – Government Systems		48					
	SMHI – Healthcare Informatics		48					
	SMHR – Human Resource Development		48					
	SMIM – Industrial/Manufacturing Systems		48					
	SMIS – Information Systems		48					
	SMLE – Law Enforcement Administration		48					
	SMLD – Leadership		48					
	SMMS – Military Systems		48					
	SMOS – Occupational Safety and Health		48					
	SMTS – Technical Sales		48					
	SMTT – Technical Training		48					
	SMTW – Technical Writing		48					
COLLEGE OF HEALTH AND HUMAN SERVICES								
Department of Allied Health								
Dental Hygiene (seeking admission)		524P						
Dental Hygiene (officially admitted)		524	66-78	B.S.	Evans	AC 236G	52427	223
Department of Applied Human Sciences								
Family and Consumer Sciences		563		B.S.				225
	CHST – Child Studies		51		Haynes–Lawrence	AC 308D	54352	
	CFED – Family and Consumer Sciences Education		82		Croxall	AC 302F	54352	
	CFFS – Family Studies		51		West	AC 414	54352	
Hospitality Management and Dietetics (seeking admission)		707P						226
Hospitality Management and Dietetics (officially admitted)		707		B.S.				
	CFNW – Food, Nutrition, and Wellness		59		Mason	AC 209C	54352	
	CFHR – Hotel, Restaurant, and Tourism Management		59		Simmons	AC 205	54352	
	CFND – Nutrition and Dietetics		68		Payne-Emerson	AC 209D	54352	
Interior Design and Fashion Merchandising		531		B.S.				227
	CFAS – Fashion Merchandising		78		Jones	AC 403C	54352	
	CINT – Interior Design		81		Flener	AC 403A	54352	
Department of Communication Sciences and Disorders								
Communication Disorders (seeking admission)		595P						
Communication Disorders (officially admitted)		595	58	B.S.	Hutchison	AC 104	52772	231

Department Major	Concentrations	Reference Number	Minimum Major Hrs.	Degree	Advisor Name	Office	Phone Number	Page #
School of Kinesiology, Recreation and Sport								
Exercise Science (seeking admission)		554P			Schafer	SS 1056	55857	233
Exercise Science (officially admitted)		554	55	B.S.	Schafer	SS 1056	55857	
Physical Education		587						232
	PEMS – Movement Studies		73	B.S.	Pyle	SS 1032	55123	
	TCHR – Teacher Education		72-75	B.S.	Pyle	SS 1032	55123	
Recreation Administration		589	48	B.S.	Poff	DA 2042	52498	234
	RERT –Recreation & Tourism							
	REFM – Facility and Event Management							
	RENA – Nonprofit Administration							
	REOR – Outdoor Recreation							
	RESS – Recreation and Sport Services							
Sport Management (seeking admission)		572P			Upright	SS 1023	53004	234
Sport Management (officially admitted)		572	57	B.S.	Upright	SS 1023	53004	
School of Nursing								
Nursing (Pre-Nursing)		586P						
Nursing (officially admitted)		586	57	B.S.N.	Lovan	MCHC 2202	58769	239
Nursing (RN-BSN program)		596	67	B.S.N.	Alexander	MCHC 3324	54078	240
Department of Public Health								
Environmental Health Science (seeking admission)		548P			Taylor	AC 236D	58975	242
Environmental Health Science (officially admitted)		548	70	B.S.	Taylor	AC 236D	58975	
Health Care Administration (seeking admission)		559P			Ellis-Griffith	AC 127F	53076	242
Health Care Administration (officially admitted)		559	67	B.S.	Ellis-Griffith	AC 127F	53076	
Health Information Management (seeking admission)		529P			Hunt-Shepherd	AC 413	52427	243
Health Information Management (officially admitted)		529	79-82	B.S.	Hunt-Shepherd	AC 413	52427	
Health Sciences		564	59-66	B.S.	Metke	AC 128 C	54752	244
	AHAH – Health Sciences Allied Health							
	AHSW – Health and Social Welfare							
	ASLM – Health Services Leadership & Management							
Public Health (seeking admission)		521P			Lartey	AC 129D	53941	245
Public Health (officially admitted)		521	70	B.S.	Lartey	AC 129D	53941	
Department of Social Work								
Social Work (seeking admission)		594P			Sullivan	AC 210B	55312	250
Social Work (officially admitted)		594	54	B.S.W.	Sullivan	AC 210B	55312	
OGDEN COLLEGE OF SCIENCE AND ENGINEERING								
Department of Agriculture								
Agriculture		508		B.S.				171
	AGPS – Agronomy (Plant)		52		Willian	EST 255	55969	
	AGSS – Agronomy (Soil)		48		Gilfillen	EST 256	55970	
	AGBU – Agribusiness		50		King	EST 240	55964	
	♦AGED – Agricultural Education		76		Kingery	EST 242	55966	
	AGSY – Agriculture Systems		50		Scudder	EST 244	52969	
	AGAS – Animal Science		58		Galloway	EST 232	55958	
	AGDS – Dairy Science		50		DeGraves	EST 235	55960	
	AGGA – General Agriculture		50		Woosley	EST 245	55967	
	AGHO – Horticulture		50		Dennis	FDTC	53382	
	AGHS – Horse Science		58		Gill	EST 234	55962	
	AGTG – Turf and Golf Course Mgt.		64		Woosley	EST 245	55967	
Agriculture M		605	30	B.S.	DeGraves	EST 269	53151	173
Department of Biology								
Biology		525	48	B.S.	Schulte	TCCW 359	53696	175
Biology M		617	36	B.S.	Schulte	TCCW 359	53696	176
Molecular Biotechnology		738	55	B.S	Schulte	TCCW 359	55396	177
Department of Chemistry								
Chemistry		623		B.S.	Burris	COHH 2115	52973	179
	CHCR – ACS Approved		53		Nee	SKYTT1	50114	
	CHGC – General M		33		Williams	COHH 2112	58899	
	FCHM – Foundations M		37		Williams	COHH 2112	58899	
	♦TCHR – Teacher Certification M		51+		Pesterfield	SKYTH 101	56246	

Department Major	Concentrations	Reference Number	Minimum Major Hrs.	Degree	Advisor Name	Office	Phone Number	Page #
Department of Engineering and Applied Sciences								
Architectural Science		518	87	B.S.	Aly	EST 226	55849	182
♦*Civil Engineering (seeking admission)*		534P						
♦*Civil Engineering (officially admitted)*		534	68	B.S.	Wilson	EBS 2128	52322	183
Computer Information Technology (seeking admission)		555P						
Computer Information Technology (officially admitted)		555	60	B.S.	Revels	EST 137	53251	184
Computer Science M (seeking admission)		629P						
Computer Science M (officially admitted)		629	44	B.S.	Atici	COHH 4142	55093	185
	CSSO – Specialty Option		50					
	CSSA – Systems / Scientific Applications		50					
Construction Management		533	69-70	B.S.	Haddad	EST 225	53414	186
♦*Electrical Engineering (seeking admission)*		537P						
♦*Electrical Engineering (officially admitted)*		537	58	B.S.	Collett	EBS 2108	52106	186
Manufacturing Engineering Technology		5006	58	B.S.	Doggett	COHH 2109	56551	188
♦*Mechanical Engineering (seeking admission)*		543P						
♦*Mechanical Engineering (officially admitted)*		543	60.5	B.S.	Byrne	EBS 2120	56286	189
Technology Management		575	63	B.S.	Janes	EST 106	54514	190
Department of Geography and Geology								
Earth Science M		678	33	A.B.	Siewers	EST 304	54555	196
Geographic Information Science		576	53	B.S.	Cary	EST 304	54555	194
Geography and Environmental Studies		675	52	B.S.	North	EST 304	54555	195
	GRCS − Climate Systems							
	GRES − Environment and Sustainability							
	GRGE − Geography							
	GRKW – Karst and Water Resources							
	GRTD – Tourism and Development							
Geology		577	52	B.S.	Siewers	EST 304	54555	196
Meteorology		578	48	B.S.	Goodrich	EST 304	54555	194
Department of Mathematics								
Mathematical Economics (seeking admission)		731P			Autin	COHH 4103	56171	202
Mathematical Economics (officially admitted)		731		B.S.	Autin	COHH 4103	56171	
	MEGM–General Mathematical Economics		49					
	MEAS–Actuarial Science		61-62					
Mathematics (seeking admission) M		728P			Neal	COHH 4108	56213	200
Mathematics (officially admitted) M		728		A.B.	Neal	COHH 4108	56213	
	MATN – Non-teacher certifiable		39					
	TCHR – Teacher Education		36+					
Mathematics (seeking admission)		528P			Neal	COHH 4108	56213	200
Mathematics (officially admitted)		528	51	A.B.	Neal	COHH 4108	56213	
	MAAD – Fundamentals of Analysis and Discrete Math							
	MAAM – Fundamentals of Applied Math							
	MAMS – Fundamentals of Math Studies							
Middle Grades Mathematics M (seeking admission)		730P			Gerstenschlager Wilson	COHH 3114	57048	201
Middle Grades Mathematics M (officially admitted)		730	34	B.S.	Gerstenschlager Wilson	COHH 3114	57048	
Department of Physics and Astronomy								
Physics M		754	35	B.S.	Gelderman	TCCW 230	56203	204
	PHEU – Physics Education		35		Gelderman	TCCW 230	56203	
Department of Psychological Sciences **Students choosing the 50 hr. option will complete 21-24 credit hrs. from two concentrations**								
Psychological Science		747	38-50	B.S.	Madole	GRH 3074	53918	207
	PAPS – Applied Psychological Science M							
	PBBP – Biobehavioral Psychology M							
	PCPS – Clinical Psychological Science M							
	PCGP – Cognitive Psychology M							
	PGEN − General							
	PDVS – Developmental Science M							
	PSQP – Quantitative Psychology							
	PSOP – Social Psychology M							
Interdisciplinary Programs								
Biochemistry		519	60	B.S.	Jacobshagen	TCCW 353	55994	215
					Williams	TCCW 423	58899	
Medical Laboratory Science		5004	83	B.S.	McDaniel	TCCW 313	56845	217
Middle School Science M		734	30-31	B.S.	Pesterfield	SkyTeach 101	56246	170

Minor Programs of Study

Department Minor	Reference Number	Minimum Minor Hrs.	Advisor	Office Name	Phone Number	Page #
POTTER COLLEGE OF ARTS & LETTERS						
Department of Art						
Art History	316	21	Jordan	FAC 413	58865	76
Computer Animation	352	21	Sung	FAC 414	52154	76
Graphic Design (for advertising majors)	385	24	Tullis	FAC 401	55930	77
Studio Art	312	30	Arnold	FAC 224	52314	77
Department of Communication						
Communication Studies	480	24	Crawley	FAC 130	53296	81
Digital Advertising	351	24	Haynes	JRH 230	53296	82
Department of Diversity and Community Studies						
African American Studies	305	21	Ardrey	GH 300	54558	83
Citizenship & Social Justice	349	22	Ashwill	DCS House	53218	84
Gender and Women's Studies	378	21	Branham	WSC	52943	85
Department of English						
Creative Writing	348	21	Brown	CH 7b	55759	87
English	359	21	Langdon	CH 116	55708	87
Literature	406	21	Langdon	CH 116	55708	88
Professional Writing	437	21	Rice	CH 16C	55998	88
Teaching English as a Second Language	478	19	Poole	CH 6B	55780	88
Department of Folk Studies and Anthropology						
Anthropology	311	21	Applegate	FAC 280	55094	90
Folklore	362	21	Evans	FAC 245	55897	90
Department of History						
History	392	21	Van Dyken / Walton-Hanley	CH 230A CH 214	52994 56959	93
Southern Studies	462	21	McMichael	FAC 200	52344	93
School of Journalism & Broadcasting						
Broadcasting	330	18	Pfranger	JRH 340	56497	99
Journalism Writing	419	21	McKerral	JRH 222	55882	99
Photojournalism	433	21	Kenney	JRH 116	56307	99
Department of Modern Languages						
Arabic	315	30	DiMeo	FAC 276	52401	105
Chinese	337	30	Peng	FAC 163	52401	106
French	365	30	Egloff	FAC 274	55905	106
German	380	30	McGee	FAC 251	55900	107
Spanish	464	30	Pertusa	FAC 231	52401	107
Department of Music						
Music	423	24	Lopes	FAC 331	55919	110
Department of Philosophy and Religion						
Classical Studies	334	21	Samuels	CH 300	55744	114
Philosophy	429	24	Samuels	CH 300	55744	114
Religious Studies	447	24	Samuels	CH 300	55744	114
Department of Political Science						
Political Science	383	21	Lasley	GH 300	54558	118
Department of Sociology						
Criminology	342	21	Faine	GH 118	52291	121
Sexuality Studies	454	18	Pruitt	GH 127	52376	121
Sociology	461	21	Smith	GH 126	53750	121
Department of Theatre and Dance						
Dance	344	27	Young	GW 300A	55845	124
Musical Theatre	424	28	Young	GW 300A	55845	126
Arts Administration	443	24	Young	GW 300A	55845	125
Theatre	490	26	Young	GW 300A	55845	125

Department Minor	Reference Number	Minimum Minor Hrs.	Advisor	Office Name	Phone Number	Page #
Interdisciplinary Programs						
Asian Studies	317	21	Samuels	CH 311	55748	127
Film Studies	358	21	Hovet	CH 110B	55782	126
Honors Self-Designed Studies	393	24	Keller	HCIC 1034	53171	357
Latin American Studies	408	21	Eagle	CH 214B	57126	126
			Keeling	EST 401B	55985	
Legal Studies	409	24	Minter	CH 206	55098	130
Russian & East European Studies	451	21	Dumancic	CH 200	53841	127
GORDON FORD COLLEGE OF BUSINESS						
Department of Economics						
Economics	356	21	Lebedinsky	GH 432	52240	138
Department of Finance						
Finance	357	27	Chhachhi	GH 334	52018	140
Department of Information Systems						
Computer Information Systems	347	18	Blankenship	GH 231	5408	141
Department of Management						
Business Administration	332	30	Potter	GH 200	55408	144
Entrepreneurship	355	21	Bolton	GH 200	55408	145
International Business	333	33	Potter	GH 200	55408	145
Department of Marketing						
Marketing	413	24	Todd	GH 402	52249	147
Sales	452	18	Forbes	GH 407	52249	148
COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCES						
Department of Military Science and Leadership						
Military Science	420	26-30	MacMillin	DA 1512	54293	161
Department of Psychology						
Psychology	438	21	Wininger	GRH 3016	54421	163
Clinical and Community Behavioral Health	436	21	Wininger	GRH 3016	54421	162
School of Professional Studies						
Organizational Leadership	431	18	Willoughby	TPH 227	58973	164
COLLEGE OF HEALTH AND HUMAN SERVICES						
Department of Applied Human Sciences						
Child Studies	336	21	Babb	AC 403E	54352	227
Family and Consumer Sciences	372	21	Sikora	AC 302A	54352	227
Family Home Visiting	370	21	Haynes-Lawrence	AC 308D	54352	227
Family Studies	338	21	West	AC 414	54352	228
Fashion Merchandising	486	30	Jones	AC 403C	54352	228
Gerontology	381	21	Wilson	AC 302E	54352	228
Interior Design	398	22	Wilson	AC 302E	54352	228
Meeting and Convention Planning	441	21	Lee	AC 209D	54352	228
Nutrition	425	22-24	Mason	AC 209C	54352	228
Tourism	445	21	Embry	AC 209A	54352	229
Department of Communication Sciences and Disorders						
American Sign Language Studies	307	21	Chance-Fox	AC 116	58962	231
School of Kinesiology, Recreation, and Sport						
Athletic Coaching	320	21-24	Esslinger	SS 1038	56038	235
Community Recreation	346	24	Ramsing	DA 2028	55482	235
Facility and Event Management	367	21	Poff	DA 2042	52498	235
Nonprofit Administration	422	21-24	Jordan	SS 1023	56042	236
Outdoor Experience Leadership	442	24	Stenger-Ramsey	DA 2037	56063	236
Physical Education	432	27	Pyle	SS 1032	55123	236
Tourism	445	21	Poff	DA 2042	52498	236

Department Minor	Reference Number	Minimum Minor Hrs.	Advisor	Office Name	Phone Number	Page #
Department of Public Health						
Environmental Health	*373*	27	Lartey	AC 129D	53941	245
Global Health Service	382	18	Mkanta	AC 127C	55260	246
Health Care Administration	386	23	Ellis-Griffith	AC 137	53076	246
Health Education	389	23	Lartey	AC 129D	53941	246
Health Education and Health Promotion	*387*	27	Lartey	AC 129D	53941	246
Occupational Safety and Health	427	24	Taylor	AC 236D	58975	246
Worksite Health Promotion	495	18	Watkins	AC 129F	54796	247
Department of Social Work						
Social Work	459	21	Funge	AC 211	55312	250
OGDEN COLLEGE OF SCIENCE AND ENGINEERING						
Department of Agriculture						
Agriculture	308	21	DeGraves	EST 269	53151	174
Floristry	369	21	Dennis	FDTC	53382	174
Department of Biology						
Biology	326	24	Schulte	TCCW 359	53693	177
Department of Chemistry						
Chemistry	335	20	Williams	COHH 2112	58899	181
Nutritional and Food Chemistry	421	18	Burris	COHH 2115	52973	181
School of Engineering and Applied Science						
Computer Science	341	20	Atici	COHH 4142	55093	191
Construction Management	343	19-20	Haddad	EST 225	53414	191
Electrical Engineering	354	21	Collett	EBS 2108	52106	191
Floodplain Management	361	22	Campbell	EBS 2124	58988	191
Industrial Sciences	395	18-21	Reaka	EST 209	57032	191
Land Surveying	405	26	Wilson	EBS 2128	52322	192
Systems Engineering	476	21-21.5	Choate	EBS 2114	58852	192
Department of Geography and Geology						
Earth Science	353	23	Crowder	EST 304	54555	197
Environmental Studies and Sustainability	479	22	North	EST 304	54555	198
Geographic Information Systems	366	26	Cary	EST 304	54555	197
Geography	374	18	Gripshover	EST 304	54555	197
Geology	377	21	Siewers	EST 304	54555	197
Water Resources	491	21	Polk	EST 304	54555	197
Department of Mathematics						
Applied Statistics	313	19	Autin	COHH 4103	56171	203
Mathematics	417	24	Robinson	COHH 4132	56223	2202
Department of Physics and Astronomy						
Astronomy	318	20	Gelderman	TCCW 230	56203	205
Physics	435	23	Harper	TCCW 226	56194	206
Department of Psychological Sciences						
Psychological Science	440	22	Madole	GRH 3074	53918	209
Neuroscience	434	21	Madole	GRH 3074	53918	209
Interdisciplinary Programs						
Aerospace Studies	304	20-23	Crawford	COHH 2103	54449	218
Biochemistry	324	18	Jacobshagen Williams	TCCW 353 TCCW 423	55994 55994	216
Biophysics	329	18	VanDerMeer	TCCW 227	56205	206

Pre-Professional Advisement

Advising Track	Pre-Professional Code	Advisor Name	Office	Phone Number	Page #
POTTER COLLEGE OF ARTS & LETTERS					
Pre-Law	PLAW	Minter	CH 206	55098	94
Pre-Theology	PTHE	Samuels	CH 300	53136	115
OGDEN COLLEGE OF SCIENCE AND ENGINEERING					
Pre-Chiropractic	PCHI	Crawford	OCH 1017	58894	210
Pre-Dentistry	PDEN	Crawford	OCH 1017	58894	210
Pre-Forestry	PFOR	Stone	EST 255	55963	211
Pre-Medicine	PMED	Crawford	OCH 1017	58894	211
Pre-Occupational Therapy	POCC	Crawford	OCH 1017	58894	212
Pre-Optometry	POPT	Crawford	OCH 1017	58894	212
Pre-Pharmacy	PPHA	Dahl	COHH 2111	55074	213
Pre-Physical Therapy	PPHY	Huskey	EBS 3118	52062	213
Pre-Physician Assistant	PPAS	Crawford	OCH 1017	58894	214
Pre-Podiatric Medicine	PPOD	Crawford	OCH 1017	56005	214
Pre-Veterinary Medicine	PVET	DeGraves	EST 235	55960	215

Certificate Programs

Program	Reference Number	Minimum Cert. Hrs.	Advisor Name	Office	Phone Number	Page #
Advanced Professionalism	1730	12	Trawick	GH 445	56311	133
Aging Specialist	1722	15	Bradley	AC 410C	54352	229
Applied Data Analytics	1734	18	Blankenship	GH 221	55952	141
Automation	1726	12	Reaka	EST 209	57032	192
Brewing and Distilling Arts & Sciences	1733	12-15	McMichael	FAC 200	56538	128
			Potter	GH 202	52913	146
			Webb	COHH 2109	56181	219
Canadian Studies	198	12	Reed	CH 233	53841	128
CNSS 4011	1719	6	Yang	COHH 4111	52940	192
Computer Literacy	1713	12	Kontos	TPH 229	780-2588	167
Data Analysis Using SAS ®	1716	15	Autin	COHH 4103	56171	203
Deaf Studies	1738	15	Chance Fox	AC 116	58962	232
Early Childhood Education Director	1739	12	Babb	AC 403E	56943	229
Environmental Health	*1743*	21	Lartey	AC 129D	53941	248
Family Home Visiting	1701	12	Haynes-Lawrence	AC 410A	54352	229
Financial Planning	200	24	Rhoades	GH 334	52018	144
Food Processing and Technology	1718	12	Khouryieh	EST 137	54126	192
Food Science	1724	12	Shen	TCCW 314	54440	177
Geographic Information Systems	174	20	Keeling	EST 304	54555	198
Health Education and Promotion	*1741*	21	Lartey	AC 129D	53941	248
Health Informatics	*1740*	19-22	Hunt-Shepherd	AC 413	52427	248
iMedia	1702	21	Northrup	JRH 215	55140	100
Information Systems	1714	18	Kontos	TPH 229	780-2588	167
Interactive Training Design	1725	12	Huang	GRH 1028	54322	158
Interdisciplinary Patient Navigator	1732	19-23	Kelley	AC 208	57060	222
Kentucky Studies	169	12	Reed	CH 233	53841	128
Land Surveying	1700	15	Wilson	EBS 2128	52322	192
Long-Term Care Administration	1717	15	Eaton	AC 126	54797	248
Manufacturing and Logistics	1727	12	Reaka	EST 209	57032	192
Manufacturing Processing and Technology	1728	12	Reaka	EST 209	57032	192
Middle East Studies	179	12	Samuels	CH 311	55748	129
Occupational Safety & Health	1705	15	Taylor	AC 236D	58975	248
Organizational Leadership	1721	12	Willoughby	TPH 227	58973	167
Political Communication	192	18	Crawley	FACS 106	55542	82
			Lasley	GH 304	52799	118
Public Health	1742	18	Lartey	AC 129D	53941	249
Real Estate	195	27	Ghezal	TPH 227	54285	168
Six Sigma and Quality	1729	12	Doggett	COHH 2109	56551	192
User Experience	1747	15	Simpson	MMTH 324	55838	82
Worksite Health Promotion	1707	18	Watkins	AC 129F	54796	249

Associate Degree Programs

Department Major	Concentrations	Reference	Minimum	Degree	Advisor	Office	Phone	Page
POTTER COLLEGE OF ARTS & LETTERS								
Department of Political Science								
Paralegal Studies (seeking admission)		276P			Shadoan	TPH 235	02539	117
Paralegal Studies (officially admitted)		276	64-66	A.A.	Shadoan	TPH 235	02539	
COLLEGE OF EDUCATION & BEHAVIORAL SCIENCE								
School of Professional Studies								
Business		288	60	A.A.				166
	BCSB – Business Management				Staynings	TPH 221	02555	
					Ghezal	TPH 227	53576	
	BMGP – Business Management Preparation				Staynings	TPH 221	02555	
					Ghezal	TPH 227	53576	
	BCLD – Leadership				Staynings	TPH 221	02555	
					Ghezal	TPH 227	53576	
	BCMI – Management Information Systems				Butterfield	TPH 253	58993	
	BCMS – Office Management and Supervision				Ghezal	TPH 227	54885	
	BCRE – Real Estate				Ghezal	TPH 227	54885	
Interdisciplinary Studies		246	60	A.I.S.	Brumit	TPH 218	58973	166
	AIAR – Arts							
	AIBU – Business							
	AIED – Education							
	AIHE – Health							
	AIHU – Humanities							
	AIOC – Organization & Communication of Ideas							
	AISC – Science							
	AISB – Social & Behavioral Studies							
	AISJ – Social Justice/Equity Studies							
	AITE –Technology							
COLLEGE OF HEALTH AND HUMAN SERVICES								
Department of Allied Health								
Dental Hygiene (seeking admission)		226P						
Dental Hygiene (officially admitted)		226	83	A.S.	Evans	AC 236G	52427	224
Department of Applied Human Sciences								
Early Childhood Education		249	60	A.A.	Babb	AC 403E	54352	229
Department of Public Health								
Health Information Management (seeking admission)		243P			Hunt-Shepherd	AC 413	52427	247
Health Information Management (officially admitted)		243	62	A.S.	Hunt-Shepherd	AC 413	52427	
School of Nursing								
Nursing (seeking admission)		273P			Harris	SC 140	780-2506	238
Nursing (officially admitted)		273	61	A.S.N.	Harris	SC 140	780-2506	
OGDEN COLLEGE OF SCIENCE AND ENGINEERING								
Department of Agriculture								
Agricultural Technology and Management		205	60	A.S.	Woolsey	EST 245	55967	174

University Libraries

WKU Libraries
Cravens Building, Office 101
Phone: 270-745-2904
Website: www.wku.edu/library

Susann deVries, Dean
Email: Susann.deVries@wku.edu

WKU Libraries supports the informational, research and curricular needs of students, faculty and staff by selecting, acquiring, organizing and providing access to print, non-print, and electronic library resources. Research assistance is offered in person, by phone or virtually. Research instruction and orientation classes are available on demand or as part of the University Experience courses. A wireless environment enhances research, collaboration or quiet study.

The Helm-Cravens Library houses a research collection of over a million items, is a federal depository for US government documents, and offers an extensive collection of e-books, databases, streaming videos, and one of the region's largest collections of foreign and independent films. The Educational Resources Center (Gary Ransdell Hall), the Visual & Performing Arts Library (VPAL, Cravens 2nd floor) and regional campus libraries in Glasgow, Owensboro and Elizabethtown-Fort Knox have additional collections and access to all electronic resources. Distance learning students are served through Extended Campus Library Services which delivers materials electronically. Primary access to collections for all students on and off-campus is through a single search of most library resources at www.wku.edu/Library.

The main entrance to the Helm-Cravens Library is on the fourth floor of the Cravens building near the Fine Arts Building. The Commons at Cravens has a single service point for research, technology and writing, as well as being adjacent to Circulation Services where patrons may charge out library materials and request laptops. The Commons offers a variety of study spaces and 30 lab computers. The Department of Library Public Services office is located on the fifth floor of Cravens. The remainder of the fifth floor, and floors 6 through 9 house the main portion of the circulating book collection, offices, conference rooms, and graduate student study carrels. VPAL has collections in music, theatre, dance, art, photography, and costume, including educational and popular DVDs, CDs and vinyl records. It provides a special listening and viewing area, soundproof rooms, a large-scale digital scanner, and the Libraries' main reserve collection. The Department of Library Technical Services, which handles the acquisition, processing of and access to all library resources and student personnel, is located on the third floor of Cravens. The Dean of Libraries office and staff are on the first floor.

The Helm building connects to the Cravens building through walkways on the fourth and fifth floors of Cravens to the first and second floors of Helm respectively. The Reference collection and Interlibrary Loan are located on the first floor of Helm. Journals, microforms, and newspapers are located on Helm second floor. Current periodicals and bound volumes of periodicals *published since* 1986 are located here. The Student Technology Center is also on the second floor with computers for student use. The ground floor of Helm contains the federal depository documents collection, selected Kentucky state documents, and the law collection, as well as bound periodicals *prior to 1986*.

The Department of Library Special Collections, located in the Kentucky Building, houses a wealth of primary research material in various formats, such as rare books and newspapers, sheet music, photographs, audio recordings, and extensive archives from the University and the community. Most, but not all, of these study and research collections relate to Kentucky history and life. These materials are non-circulating and must be used in the building; however, many examples from the collection are now available online.

Each service area or branch has printed library guides or go to www.wku.edu/library for online guides, news and updates. The library also has a mobile app. The library blog announces new programs, acquisitions, and services at http://library.blog.wku.edu. The library also manages TopSCHOLAR, the research and creative activity database at WKU, which provides access to student and faculty work at http://digitalcommons.wku.edu.

Potter College of Arts & Letters

Ivan Wilson Center for Fine Arts, Office 200
Phone: (270) 745-2344; Fax: (270) 745-5734
Website: www.wku.edu/pcal
Sample Degree Paths:
http://www.wku.edu/degreepaths/18-19/pcal.php

Dr. Lawrence Snyder, Dean
Email: Lawrence.Snyder@wku.edu

Dr. Andrew McMichael, Associate Dean
Email: Andrew.McMichael@wku.edu

Departments/School

- Art
- Communication
- Diversity and Community Studies
- English
- Folk Studies and Anthropology
- History
- Journalism & Broadcasting
- Modern Languages
- Music
- Philosophy and Religion
- Political Science
- Sociology
- Theatre and Dance

Potter College of Arts & Letters takes as its primary area of scholarly concern the study of men and women – their past, present, and future, as well as their aesthetic expression, metaphysical concerns, and social interaction. Potter College prepares students to enter a wide range of careers as well as programs of advanced study. More than 200 faculty members provide instruction in some twenty disciplines. Each of the twelve departments offers both majors and minors, and in cooperation with the Graduate School, Potter College offers graduate degrees in most departments. In addition, the college plays an important role in the university's Colonnade program.

Department of Art

Prof. Kristina Arnold, Head
Email: Kristina.Arnold@wku.edu

Ivan Wilson Center for Fine Arts, Office 441
Phone: 270-745–3944; Fax: 270-745–5932
Website: www.wku.edu/art

Professors: K. Arnold, M. Choe, M. Nichols, B. Oglesbee, Y. Petkus, J. Sung, M. Tullis
Associate Professors: I. Cartwright, B. Dedas, G. Jordan
Assistant Professors: D. Marquez, M. Salvator, N. Tyree
Transitional Retiree: J. Jensen

Department of Art Mission Statement

To complement the mission of the University, the Department of Art dedicates its efforts toward the following mission: *The WKU Department of Art offers paths to explore, experience, and expand the possibilities of artistic expression, an indispensable part of human society.* It seeks to accomplish this mission through creativity, research, and effective use of its multiple resources.

The Department of Art offers three undergraduate degree programs: the Bachelor of Fine Arts in Visual Arts with concentrations in Studio or Graphic Design, the Bachelor of Arts in Visual Studies with either a concentration in Art Education or a Studio concentration, and a Bachelor of Arts in Art History. In addition, the department offers undergraduate minors in Art History, Computer Animation, Graphic Design for Advertising majors, and Studio Art. A broad outline of purposes and suggested programs of study are listed below for each major and minor. WKU is a NASAD (National Association of Schools of Art and Design) accredited institution.

Individuals or groups interested in touring the department's facilities may make an appointment through the Office of Admissions (270) 745-2551, or the Department of Art (270) 745-3944. Please visit the department's website, listed to the left above, for further details.

Through the University Gallery, the department presents exhibitions, lectures, and workshops by nationally recognized artists designed to enhance the education of art students while serving the entire university and larger community. Faculty exhibitions, juried student shows, and graduating senior exhibitions are scheduled annually, the department reserves the right to retain and publish selected examples of student work.

Major in Visual Arts

Program Coordinator: K. Arnold

Reference Number: 514P (seeking admission)
514 (officially admitted)
Minimum Hours for Major: 73-79

Minimum Hours for Degree: 121
Degree: Bachelor of Fine Arts

Sample Degree Paths for Concentration:
Studio: http://wku.edu/degreepaths/18-19/documents/pcal/bfa_visual_arts_studio_514.pdf

Graphic Design: http://wku.edu/degreepaths/18-19/documents/pcal/bfa_visual_arts_graphic_design_514.pdf

The Bachelor of Fine Arts degree is the initial professional degree sought for careers in the visual arts field. The department of art offers two concentrations. The BFA in Studio concentration prepares students for a professional studio practice through rigorous artistic and academic experience. It is also the standard requirement for entrance into Masters of Fine Arts degree programs, the most common route to teaching studio art at the college level. The BFA Graphic Design concentration prepares students for careers in the visual communications field, including web design, print design, illustration, and new media. Both concentrations begin with a foundation of drawing, 2-D design, 3-D design, and art history surveys. Students then focus on a specific curricular sequence of interest to them: ceramics, graphic design, printmaking, painting, sculpture, or weaving. A portfolio and seminar class serve as the capstone experiences for BFA students in each concentration, where personal concepts and technical proficiency typically yield a cohesive body of work or competitive professional portfolio. In either concentration, the goal for the BFA student is to forge a professional art practice.

The major requires 73-79 semester hours of study. Entry into the BFA in Visual Arts program may be accomplished in one of two ways: have a minimum overall GPA of 3.0 in art and art history courses to include: ART 105 or ART 106, ART 130, ART 131, ART 140, a basic studio course at the 200-level, and an upper-level 300 studio course, or have a minimum GPA of 2.5 for these same courses and pass a department portfolio review conducted by a faculty committee. Transfer students will be required to meet the second of these two options. Any student denied entrance in their initial portfolio review and having less than 36 hours in art and art history, while maintaining a 2.5 GPA in the continuing art courses, may reapply once. Prior to meeting these standards, students pursuing the BFA will be designated as reference number 514P.

The major offers two concentrations, Studio and Graphic Design. Both concentrations require the following courses: ART 105 (History of Art to 1300), ART 106 (History of Art Since 1300), ART 130 (2-D Design), ART 131 (3-D Design). ART 140, ART 240, ART 340, ART 341 (for Studio concentration) (all drawing courses) (ART 341 or ART 431 for Graphic Design). Students may have no more than one “D” for a final grade in the following foundation courses: ART 105, ART 106, ART 130, ART 131, or ART 140. Additionally, both concentrations require students to take two upper-level elective studio courses, ART 432 (Portfolio) and ART 434 (Capstone Seminar). Each concentration has additional requirements listed below.

BFA Studio concentration majors must also take four of the following seven basic studio courses listed: ART 220 (Ceramics), ART 231 (Graphic Design), ART 243 (Digital Media), ART 250 (Printmaking), ART 260 (Painting), ART 270 (Sculpture), ART 280 (Weaving). BFA studio concentration majors focus in one studio concentration for 7 additional upper-level courses and 2 hours of elective studio courses. In addition, students must take two upper-level art history electives selected from the following list: ART 305, ART 312, ART 313, ART 314, ART 315, ART 316, ART 317, ART 318, ART 325, ART 334, ART 390, ART 401, ART 403, ART 405, ART 407, ART 408, ART 409, ART 410, ART 445, ART 494, PHIL 305.

BFA Graphic Design concentration majors must take three of the following six basic studio courses listed: ART 220 (Ceramics), ART 250 (Printmaking), ART 260 (Painting), ART 270 (Sculpture), ART 280 (Weaving). They must also take the following drawing-focused courses: ART 240, ART 340, ART 341, or ART 431 (Illustration). Finally, BFA graphic design concentration majors focus on a track of required courses that are specific to their field. They include: ART 231 (Graphic Design), ART 243 (Digital Media), ART 330 (Graphic Design), ART 334 (Survey of Graphic Design), ART 343 (Digital Media, Time-based), ART 430 (Graphic Design), ART 433 (Package Design), ART 438 (Advanced Computer Graphics), ART 331 (Visual Thinking), AD 343, ART 436 (Electronic Illustration) or AMS 308 (Graphic Communication). In addition, students must take two upper-level art history electives selected from the following list: ART 305, ART 312, ART 313, ART 314, ART 315, ART 316, ART 317, ART 318, ART 325, ART 390, ART 401, ART 403, ART 405, ART 407, ART 408, ART 409, ART 410, ART 445, ART 494; PHIL 305.

Major in Visual Studies

Program Coordinator: K. Arnold

Reference Number: 509
Minimum Hours for Major: 49 (Studio Art Concentration)
63 (Art Education Concentration, plus professional education courses)

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Paths for Concentration:
Art Education: http://wku.edu/degreepaths/18-19/documents/pcal/ba_visual_studies_art_ed_509.pdf

Studio Art: http://wku.edu/degreepaths/18-19/documents/pcal/ba_visual_studies_studio_509.pdf

The Bachelor of Arts (AB) in Visual Studies is a liberal arts degree intended to provide students with a wide range of art experience and knowledge rather than professional studio specialization. Students begin with foundational studies that include ART 140-Drawing, ART 130 2-D design, and ART 131 3-D design, art history surveys, ART 105 and ART 106.

The **AB in Visual Studies-Studio concentration** requires 49 semester hours of study. It allows students to pursue a wide breadth studio interest, yet engage in other liberal art experiences as well. Further studies in this concentration include basic studios requirements that include three of the following, ART 220-Ceramics, ART 231-Graphic Design, ART 240-Drawing, ART 243-Digital Media, ART 244-Computer Animation I, ART 250-Printmaking, ART 260-Painting, ART 270-Sculpture, ART 280-Weaving. Additionally, students in this concentration take the following:

I. Six upper-level studio courses (18 hrs.): ART 321, ART 330, ART 331, ART 340, ART 341, ART 343, ART 444, ART 350, ART 351, ART 360, ART 361, ART 371, ART 372, ART 373, ART 380, ART 381, ART 420, ART 421, ART 422, ART 423, ART 424, ART 425, ART 426, ART 430, ART 431, ART 433, ART 436, ART 438, ART 399, ART 440, ART 444, ART 450, ART 451, ART 452, ART 453, ART 454, ART 455, ART 456, ART 461, ART 462, ART 463, ART 464, ART 465, ART 466, ART 470, ART 471, ART 472, ART 474, ART 475, ART 176, ART 480, ART 481, ART 482, ART 483, ART 484, ART 485, ART 486, ART 490, ART 491, ART 499
II. Two upper-level art history courses (6 hrs.): ART 305, ART 312, ART 313, ART 314, ART 315, ART 316, ART 317, ART 318, ART 325, ART 334, ART 390, ART 401, ART 403, ART 405, ART 407, ART 408, ART 409, ART 410, ART 445, ART 494, and PHIL 305
III. ART 434 (1 hr. Capstone Seminar).

The **AB in Visual Studies, Art Education concentration** equips knowledgeable and creative art teachers to meet state and national standards on elementary and secondary levels. This degree, requiring a combined total of 88 semester hours in art and professional education courses, prepares students for P-12 certification and is a common requirement for entry into a Master of Arts in Education degree program.

Beyond the previously mentioned foundational courses listed above, students take the following basic studio requirements include taking four of the following nine courses: ART 220-Ceramics, ART 231-Graphic Design, ART 240-Drawing, ART 243-Digital Media, ART 244-Computer Animation I, ART 250-Printmaking, ART 260-Painting, ART 270- Sculpture, and ART 280-Weaving. Required capstone experiences ART 432-Portfolio and ART 496-Special Topics. Upper-level art history requirements include (6 hours): ART 305, ART 312, ART 313, ART 314, ART 315, ART 316, ART 317, ART 318, ART 325, ART 334, ART 390, ART 401, ART 403, ART 405, ART 407, ART 408, ART 109, ART 410, ART 445, ART 494, and PHIL 305. Art Education majors are required to take five upper level studio electives (15 hours), chosen from the following courses: ART 321, ART 330, ART 331, ART 340, ART 341, ART 344, ART 360, ART 421, ART 420, ART 422, ART 423, ART 424, ART 425, ART 426, ART 343, ART 361, ART 370, ART 371, ART 372, ART 373, ART 380, ART 381, ART 430, ART 431, ART 433, ART 436, ART 438, ART 440, ART 444, ART 350, ART 351, ART 450, ART 451, ART 452, ART 453, ART 454, ART 455, ART 456, ART 460, ART 461, ART 462, ART 463, ART 464, ART 465, ART 466, ART 470, ART 471, ART 472, ART 474, ART 475, ART 476, ART 480, ART 481, ART 482, ART 483, ART 484, ART 485, ART 486, ART 490, ART 491, ART 399, ART 499. Art Education majors are also required to take the following art education methods classes: ART 311-Foundations of Art Education and Methods I, ART 411-Foundations of Art Education and Methods II, and ART 413-Foundations of Art Education and Methods III.

An additional 25 semester hours in Professional Education courses are required for state certification purposes. They include: EDU 250-Introduction for Teacher Education, LTCY 421-Content Area Reading in the Middle and Secondary Grades, PSY 310-Educational Psychology, SPED 330-Introduction to Exceptional Education. Student must choose two out of the three courses listed (5 hours each for a total of 10 hours): ELED 490-Student Teaching, SEC 490-Student Teaching, or MGE 490-Student Teaching, as well as EDU 489-Student Teaching Seminar.

Major in Art History

Program Coordinator: G. Jordan
Reference Number: 613
Minimum Hours for Degree: 120
Minimum Hours for Major: 36
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/ba_art_history_613.pdf

The Bachelor of Arts in Art History provides WKU students with a broad and thorough understanding of the history and function of the visual arts from ancient times to the present day. Majors will critically analyze paintings, prints, sculpture, architecture, and other visual media to investigate a range of historical and philosophical issues with which the arts have been deeply involved. As such, majors will gain an understanding of how visual practices proactively articulate and motivate rather than simply illustrate, record, or reiterate history.

With an emphasis on reading, writing, research, and critical analysis the AB in Art History contributes experiences useful to a broad range of possible careers, including museum, gallery, and auction house curatorial duties, art appraisal, conservator and registrar positions, docent roles, archiving, and grant writing interests.

The major requires courses to be taken across a range of chronological periods, ensuring that graduates possess a broad understanding of the field, yet it also allows students to focus their studies on particular historical periods or geographical regions that interest them. A minor or second major is required. No more than 6 hours in the art history major may count toward a student's minor. No grade of "D" or below may be counted toward the major.

The program requires two introductory courses (ART 105 and ART 106) that provide foundational knowledge of the history of global art, one course (ART 130, ART 131, or ART 140) that familiarizes students with the fundamental concepts of art making, and a course in contemporary art that ensures students have a strong grounding in current trends. The two other required courses are a theory and methodology class (ART 405), and a capstone seminar (ART 494). To ensure significant breadth, among the six electives required for the major, at least one must be chosen from each of the five chronological categories. The remaining elective may be customized to accord with the research interests of the student, and allows for a significant degree of expansion into visually oriented coursework in other disciplines.

Students are required to take the following 15 hours: ART 105 (History of Art to 1300), ART 106 (History of Art Since 1300), ART 130 (2-D Design) or ART 131 (3-D Design) or ART 140 (Drawing), ART 405 (Theory and Criticism), ART 494 (Seminar in Art History), and ART 390 (Contemporary Art). In addition, students must take 18 hours of elective courses with at least one course from each of the following five categories: Non-Western Art (ART 325, ART 407); Ancient and Medieval (ART 305, ART 316); Renaissance and Baroque Art (ART 314, ART 315, ART 401, ART 403); Eighteenth Century and Nineteenth Century Art (ART 312, ART 408, ART 409); Modern and Twentieth Century Art: (ART 313, ART 410). The following courses may also be taken as an elective; but are considered "free electives," and do not satisfy any of the four category distributions listed above: ANTH 130, ANTH 432, ANTH 434, ANTH 448, ANTH 470/FLK 470; ART 334, ART 445/FLK 445; ENG 465, ENG 466; FLK 434, FLK 445, FLK 464; FREN 450, GERM 437; IDFM 151, IDFM 152, IDFM 332, IDFM 424, IDFM 434, IDFM 446; PHIL 102, PHIL 305; SPAN 490.

Minor in Art History

Program Coordinator: G. Jordan

Reference Number: 316
Minimum Hours for Minor: 21

The minor in Art History requires a total of 21 semester hours. Course requirements include ART 105 (History of Art to 1300), ART 106 (History of Art Since 1300) three upper-level elective art history courses selected from the following list: ART 303, ART 305, ART 312, ART 313, ART 314, ART 315, ART 316, ART 325, ART 334, ART 390, ART 401, ART 403, ART 407, ART 408, ART 409, ART 410 and ART 445. Final required courses include ART 405 (Theory and Criticism) and ART 494 (Seminar in Art History). See course descriptions for further details.

Minor in Computer Animation

Program Coordinator: J. Sung

Reference Number: 352
Minimum Hours for Minor: 21

The computer animation minor is dedicated to the creation of time-based artistic productions by means of emerging computer technologies and processes. Introductory courses include (3 credit hours): ART 130 or ART 131 or ART 140. Students are required to take the following required courses (12 credit hours): ART 243, ART 244, ART 344, and ART 444. Two courses (6 credit hours) from restricted electives must be taken from the following: ART 373, ART 390, ART 436; FILM 201; BCOM 264, or BCOM 378.

Minor in Studio Art

Program Coordinator: K. Arnold

Reference Number: 312
Minimum Hours for Minor: 30

The minor in Studio Art requires a total of 30 semester hours. Foundation courses include ART 130 (2-D Design), ART 131 (3-D Design), ART 140 (Drawing) and two of the following eight basic studio courses: ART 220 (Ceramics), ART 231 (Graphic Design), ART 240 (Drawing), ART 243 (Digital Media), ART 250 (Printmaking), ART 260 (Painting), ART 270 (Sculpture), ART 280 (Weaving). Five courses in upper-level studio elective courses are required to complete this minor. See course descriptions for further details.

Minor in Graphic Design for Advertising Majors

Program Coordinator: M. Tullis

Reference Number: 385
Minimum Hours for Minor: 24

The Graphic Design minor for Advertising Majors requires a total of 24 semester hours. Foundation courses include ART 130 (2-D Design), ART 140 (Drawing), either ART 105 (History of Art to 1300) or ART 106 (History of Art Since 1300), and two graphic design courses, ART 231 (Graphic Design) and ART 330 (Graphic Design). Upper-level course requirements include completing three of the following seven graphic design elective courses: ART 331, ART 334, ART 430, ART 431, ART 433, ART 436, ART 438. See course descriptions for further details.

Department of Communication

Dr. Helen Sterk, Head
Email: Helen.Sterk@wku.edu

Ivan Wilson Center for Fine Arts, Office 130
Phone: (270) 745-3296; Fax: (270) 745-3295
Website: http://www.wku.edu/communication

Professors: C. Garmon, A. Jerome, H. Payne, C. Shaluta, H. Sterk
Associate Professors: V. Bagwell, C. Haynes, K. Ishii, J. Kong, K. Payne, S. Ray, W. Simpson, J. Smith, H. Strode, B. Thompson
Assistant Professors: J. Hoffswell
Instructors II: G. Allison, B. Crawley, C. Elder, G. Hughes, J. McClanahan, D. Schiess, P. Witcher
Professional-in-Residence: K. Coppinger
Professors Emeriti: L. Caillouet, R. Capps, J. Hoover, C. Kell, K. Payne, D. Wicklander, L. Winn

The Department of Communication offers five undergraduate majors (Advertising, Communication Studies, Corporate and Organizational Communication, Popular Culture Studies, and Public Relations) that prepare students for understanding the complexities of communication in the modern world. We also house two minors (Communication Studies and Digital Advertising) and two certificate (Political Communication and User Experience). We feel that a broad-based liberal arts curriculum is essential for a well-rounded education.

The **Advertising** major provides a number of opportunities for students to build an impressive resume and on-line portfolio. Class projects, competitions, and internships all lead to an extraordinary educational experience. The business of advertising or user experience (UX) is being transformed as consumers are choosing new technologies to access a variety of content where and when they choose. Conventional media revenue models are being challenged and new type of advertising professional is needed. The major in Advertising prepares students for media, agency and corporate advertising careers.

Specific objectives of the Advertising major:

1. To acquaint the student with important concepts, methods, and examples of successful advertising design and media strategies:
2. To provide the student with training to make strategically sound analysis of advertising decisions;
3. To provide the student with opportunities to apply knowledge and creativity to real-world advertising situations;
4. To develop the student's ability to present well-reasoned conclusions and recommendations in writing and oral presentations;
5. To develop in student's the foundation for continued self-education and personal development.

The **Communication Studies** major provides students a platform for understanding the diverse ways communication creates, maintains, and transforms relationships, organizations, institutions, and society. In preparing students to communicate across an ever-changing communication landscape, the major's core courses ensure students learn how communication functions across foundational areas of the discipline. Electives are organized so that students may tailor their plans of study to meet specific personal and career goals.

Specific objectives of the Communication Studies major:

1. To develop competencies in analyzing communication studies
2. To construct and present messages appropriately adapted to specific contexts and audiences
3. To develop the communicative skills essential to complementing careers in a variety of fields including, but not limited to business, law, politics, health care, social work, religious ministries, and teaching.

The **Corporate and Organizational Communication** major prepares students to understand and apply communication theories and concepts that explain human interaction in the workplace and guide the formulation of messages for the organization and its constituencies in a wide range of situations. Students investigate how individuals influence and are influenced by organizations and their members as well as how stakeholders' personal communication competencies affect participation in and quality of organizational life and society. In a pre-professional program, students engage in a solid core of organizational communication courses and are exposed to complementary courses focusing on message strategy, human relations, critical thinking, and proficient writing. Elective courses in the major are carefully chosen with an advisor to ensure the student receives the necessary background to succeed in an organizational setting.

Specific objectives of the Corporate and Organizational Communication major:

1. To build competence in critically analyzing communication within organizations
2. To develop skill in assessing internal and external communication needs
3. To obtain proficiency in understanding audience differences and developing strategic communication plans accordingly.

The **Popular Culture Studies** major, the second of its kind in the country, provides WKU undergraduates with a broad understanding of the arts and culture of everyday life and its multiple uses and meanings. Through innovative interdisciplinary coursework and community events, the major helps students critically analyze the wide range of cultural production and practices they encounter daily including in such areas as television, film, music, sports, advertising, customs, and rituals.

Specific objectives of the Popular Culture Studies major are:

1. To provide a thorough and rigorous grounding in the study of popular culture from a variety of disciplinary perspectives (including but not limited to Art History, English, Film Studies, Folk Studies and Anthropology, History, Journalism and Broadcast Communications, Philosophy and Religion, Political Science, and Sociology).
2. To help students make connections between everyday popular culture and cultural forms more traditionally studied in these and other liberal arts disciplines.
3. To develop the skills essential for students to become informed consumers and engaged participants in the global community in an age in which cultural industries play a central role in shaping the international social, political, and economic landscape.
4. To prepare students for a wide variety of careers in media and culture industries, in the analysis, promotion, or preservation of these productions, or for graduate studies in a range of liberal arts disciplines, business, or law.
5. To promote students' international engagement by studying and reporting on the ways popular culture shapes and is shaped by communities on the local, national, and global level.

The **Public Relations** major, certified by the Public Relations Society of America, emphasizes research and measurement, strategic planning, targeted written communication tactics, and ethical practice. Public relations in a planned process to influence public opinion using strategic communication. We prepare students for a career in public relations with skills in critical thinking, writing, technology, research, program planning and management, creative problem solving, and relationship building with key publics. Those publics include media, consumers, employees, government, opinion leaders, and communities.

Virtually all segments of the public and private sectors throughout the world draw employees from public relations graduates. Our graduates work as communications tacticians, strategic planners, and management counselors. They may specialize in employee relations, community relations, crisis communication, public affairs, media relations, or several other disciplines within the professional arena.

Specific objectives of the Public Relations major are:

1. To promote a broad understanding and appreciation of the expanding and important role of public relations in modern society;
2. To increase knowledge and develop skills required for positions in the public relations field;
3. To instill high standards of ethical conduct;
4. To build a foundation for lifelong learning and advanced education in public relations.

Student Activities

Membership is available and encouraged in the professional student organizations associated with the department, including the International Association of Business Communicators, Lambda Pi Eta Honor Society, the American Advertising Federation, and the Public Relations Student Society of America. In addition to providing fellowship for students with common interests, these groups sponsor field trips, lectures, professional workshops, and career days. Additionally, the department houses Imagewest, a student-run public relations and advertising agency that provides real-world experience to help student hone their creative skills, develop confidence and build portfolios of their work http://www.wkuimagewest.com. The department also sponsors the Communication Ambassadors, a group of students selected from the major programs who represent the department at public events.

Major in Advertising

Program Coordinator: C. Haynes

Reference Number: 727P (seeking admission)
727 (officially admitted)

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Minimum Hours for Major: 36

Sample Degree Path for Concentration: https://www.wku.edu/degreepaths/18-19/documents/pcal/advertising_727.pdf

Admission Requirements

Students wishing to enter the major in Advertising initially are admitted as majors seeking admission (reference 727P). Prospective majors may take no more than 15 hours in the major before admission. Students must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.3;
3. Completion of COMM 200 with a grade of "C" or better.

All courses in the major must be completed with a grade of "C" or better. At least one-half of the hours in the major must be at the 300 or 400 level.

The following 30 hours of Advertising Core courses are required: COMM 200, AD 210, MKT 220, AD 240, AD 300 or COMM 300 or PS 301 or SOCL 302, AD 310, AD 330, AD 349, AD 410, and UX 330, In addition, six hours of restricted electives must be chosen from the following: AD 489, COMM362, PR 255, PR 350, UX 320, UX 340, UX 400.

With departmental approval, students may opt to substitute one of the following courses in fulfillment of an elective requirement: AD 400, AD 415, AD 495. A minor, certificate, or second major is required.

Major in Communication Studies

Program Coordinator: B. Crawley

Reference Number: 792P (seeking admission)
792 (officially admitted)

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Minimum Hours for Major: 36

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/communication_studies_792.pdf

Admission Requirements:

Students wishing to enter the major in Communication Studies initially are admitted as majors seeking admission (reference 792P). Prospective majors may take no more than 15 hours in the major before admission. Student must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of course work applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.3;
3. Completion of COMM 200 with a grade of "C" or better.

All courses within the major must be completed with a grade of "C" or better. One-half of the hours in the major must be at the 300- or 400-level.

The following 15 hours of Communication Studies Core courses are required: COMM 200, COMM 345 or COMM 346, COMM 348, COMM 362, and COMM 365.

In addition, 21 hours of electives are required. 3 elective hours must be taken from the Advanced Study in Communication category, 12 hours must be taken from the Communication in Context category (only one course taken in this category may be taken at the 200 level), and 6 hours must be taken from the Communication Skills and Applications category (only one course taken in this category may be taken at the 200 level).

***Advanced Study in Communication**:* COMM 440, COMM 448, COMM 450, COMM 451, COMM 463.

*Note: The course taken to meet the Advanced Study in Communication requirement may not be double counted in the Communication in Context category.

Communication in Context: , AD 240, POP 201, PR 255, COMM 315, COMM 364, COMM 374, COMM 388, COMM 440, COMM 448, COMM 450, COMM 451, COMM 463.

Communication Skills and Applications: AD 210, COMM 212 or ENG 212, COMM 240, COMM 245, COMM 247, COMM 260, COMM 300 or PS 301 or SOCL 302, COMM 330, COMM 345, COMM 346, COMM 349.

With departmental approval, students may opt to substitute one of the following courses in fulfillment of a Communication Studies elective other than the Capstone elective: COMM 400, COMM 415, COMM 489 or COMM 495.

A minor, certificate, or second major outside of the department is required; neither the Communication Studies minor nor the Corporate and Organizational Communication major may be used to fulfill this requirement.

Major in Corporate and Organizational Communication

Program Coordinator: B. Crawley

Reference Number: 522P (seeking admission)
522 (officially admitted)
Minimum Hours for Major: 36

Minimum Hours for Degree:120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/corporate_organizational_comm_522.pdf

Students wishing to enter the major in Corporate and Organizational Communication initially are admitted as majors seeking admission (reference 522P). Prospective majors may take no more than 15 hours in the major before admission. Students must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree'
2. A minimum overall grade point average of 2.3;
3. Completion of COMM 200 with a grade of "C" or better.

All courses in the major must be completed with a grade of "C" or better. At least one-half of the hours in the major must be at the 300 or 400 level.

The following 21 hours of Organizational Communication core courses are required: COMM 200, COMM 300 or PS 301 or SOCL 302, COMM 346, COMM 349, COMM 362, COMM 462, COMM 489. In addition, 15 hours of Corporate Communication electives are required. Six hours of Corporate Communication electives must be taken from the Message Strategy category, 6 hours must be taken from the Human Relations category, and 3 hours must be taken from the Writing Proficiency category.

Message Strategy (only one course may be taken at the 200-level): AD 240, COMM 260, COMM 345, COMM 364, COMM 388, COMM 45, MKT 220, PR 255.

***Human Relations**:* COMM 330, COMM 470, COMM 471, MGT 311, MGT 333, MKT 325, PSY 370, PSY 371.

Writing Proficiency: COMM 212 or ENG 212, ENG 203, ENG 301, ENG 306, JOUR 202, MGT 361.

With departmental approval, students may opt to substitute one of the following courses in fulfillment of a Corporate Communication elective: COMM 400, COMM 415, COMM 495. A minor or second major is required; neither the Communication Studies minor nor the Communication Studies major may be used to fulfill this requirement.

Major in Popular Culture Studies

Program Coordinator: Joseph Hoffswell
Email: Joseph.Hoffswell@wku.edu
Fine Arts Center

Reference Number: 758
Minimum Hours for Major: 31

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/pop_culture_studies_758.pdf

The major in Popular Culture Studies requires a minimum of 31 credit hours and leads to a Bachelor of Arts degree. The major is composed of three levels of required courses plus electives and is designed to ensure that students gain an interdisciplinary perspective on the subject of popular culture but still have the opportunity to pursue their particular interests. A minor, certificate, or second major in another discipline is required. No more than 6 hours in the popular culture studies major may count towards a student's minor. Students must earn a grade of "C" or better in all required non-elective courses applied to the Popular Culture Studies major. Students are encouraged to include at least one course on popular culture outside the United States and to participate in relevant study abroad opportunities.

Required Courses (16 hours):

1. *POP 201 (3 hours)* Prerequisite: ENG 100 or permission of instructor. Note: It is essential that students planning to pursue this major take this course as early as possible as, ideally no later than having completed 9 credit hours within the major.
2. *Core Courses (9 hours):* Students must take one course from each of the following three categories. These are all foundational courses in the major and each category consists of courses with a shared theoretical approach to the subject.
   Category One: ***History and Folk Studies:*** HIST 340, HIST 447, FLK 371, FLK 373, FLK 281.
   Category Two: ***Media* and *Studies:*** SJB 154, SJB 310, ENG 366, ENG 465, FILM 201
   Category Three: ***Social Sciences:*** PHIL 207, SOCL 324, PS 372, SUS 295.
3. *POP 498 (1 hour):* Students should have completed POP 201, have senior status, and have accumulated 21 credit hours in the major prior to or concurrent with taking this course.

Elective Courses (18 hours): Students will fulfill the remaining 18 hours of the major by choosing from the following elective courses: AFAM 190, ANTH 120, ANTH 342, ANTH 448, ART 312, ART 313, ART 325, ART 334, ART 390, ART 405, ART 408, ART 409, ART 410, ART 445, BCOM 201, BCOM 401, ENG 320, ENG 321, ENG 340, ENG 365, ENG 366, ENG 370, ENG 465, ENG 466, FILM 201, FILM 369, FILM 399, FLK 275, FLK 276, FLK 281, FLK 371, FLK 373, FLK 379, FLK 388, FLK 410, FLK 445, FLK 464, FLK 478, FREN 323, FREN 450, GEOG 330, GERM 333, GERM 335, GERM 437, GWS 375, HIST 320, HIST 321, HIST 340, HIST 391, HIST 402, HIST 447, MUS 320, PHIL 207, POP 389, POP 399, PS 303, PS 320, PS 321, PS 331, PS 372, RELS 222, SJB 154, SJB 310, SOCL 245, SOCL 324, SOCL 345, SPAN 373, SPAN 376, SPAN 490, SUS 295, THEA 430. Students must have at least 6 credit hours of elective courses at the 300 level or above and at least 18 upper-level (300 and above) credit hours within the major. Students can take no more than 6 credit hours in any one discipline unless they are minoring or double majoring in that discipline. Students should consult the appropriate department and course catalog listing for any prerequisites.

Major in Public Relations

Program Coordinator: P. Witcher

Reference Number: 763P (seeking admission)
763 (officially admitted)
Minimum Hours for Major: 36

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/public_relations_763.pdf

Admission Requirements
Students wishing to enter the major in Public Relations initially are admitted as majors seeking admission (reference 763P). Prospective majors may take no more than 15 hours in the major before admission. Students must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.3;
3. Completion of COMM 200 with a grade of "C" or better;

All courses in the major must be completed with a grade of "C" or better. At least one-half of the hours in the major must be at the 300 or 400 level.

The following 33 hours of Public Relations Core courses are required: COMM 200, JOUR 202, PR 255, BCOM 265 or BCOM 325, AD 300 or COMM 300 or PS 301 or SOCL 302, PR 350, PR 354, PR 356, PR 358, PR 454, and PR 456. In addition, three hours of restricted electives must be chosen from the following: AD 210, AD 240, AD 310, BCOM 264, COMM 315, COMM 346, COMM 362, COMM 364, COMM 388, COMM 440, COMM 451, JOUR 323. MKT 220, MKT 322, MKT 331, POP 201, PJ 131, PR 489, UX 330.

With departmental approval, students may opt to substitute one of the following courses in fulfillment of an elective requirement: PR 400, PR 415, PR 495. A minor, certificate, or second major is required.

Minor in Communication Studies

Program Coordinator: B. Crawley

Reference Number: 480
Minimum Hours for Minor: 24

The minor in Communication Studies develops competencies in analyzing communication situations, constructing and presenting messages, and adapting to specific contexts. At least 12 hours must be taken in courses numbered 300 or above.

All courses in the minor require a grade of "C" or higher. The following 15 hours of Communication core courses are required: COMM 200, COMM 345, COMM 348, COMM 362, and COMM 463. In addition, students must take 9 hours of electives with at least one course from each of the following areas (six elective hours must be at the 300- or 400-level): ***Organizational Communication:*** COMM 330, COMM 349, COMM 462; ***Interpersonal Communication:*** COMM 240, COMM 374, COMM 448, COMM 450; ***Public Communication*****:** COMM 245, COMM 247, COMM 346, COMM 388. Students may opt to substitute COMM 300 in fulfillment of a communication elective.

Minor in Digital Advertising

Program Coordinator: C. Haynes

Reference Number: 351
Minimum Hours for Minor: 24

The minor in Digital Advertising requires 24 semester hours of coursework and is designed for students from a variety of majors. The primary goal of the curriculum is to help students develop a better understanding of advertising utilizing emerging digital communication technologies. Students pursing the minor complete a core group of seven courses (21 hours) and then select one course from the list of electives. Core courses (18 hours) include: SJB 101, SJB 102, SJB 210, AD 240, AD 330, and AD 349. Choose two electives (6 hours) from the following list: UX 320, SJB 330, SJB 340, MKT 331, MKT 328, PR 255.

Political Communication Certificate

Program Coordinator: B. Crawley

Reference Number: 192
Minimum Hours for Certificate: 18

The certificate in Political Communication explores the role that communication plays in political systems by combining studies in the fields of communication and political science. The certificate is designed for students preparing for careers as legislative aides, political consultants, campaign managers, speechwriters, or lobbyists. Students who complete the certificate will have a foundation of communication skills and theory with a working knowledge of the political system.

Co-sponsored by the Departments of Communication and Political Science, the certificate program consists of 18 hours of required and elective courses that complement both a student's major/minor and career aspirations.

Students are required to take PS 375, Fundamentals of Political Campaign Management, COMM 388, Senior Seminar in Political Communication and PS 371 or PS 372. Students will select one course from of the following Political Science courses: PS 310, PS 311, PS 316, PS 331, PS 370, PS 371, PS 372, PS 373, PS 374, PS 435 and two courses from the following list of Communication Studies courses: COMM 245, COMM 345, COMM 346, COMM 349.

User Experience Certificate

Program Coordinator: M. Simpson

Reference Number:1747
Minimum Hours for Certificate: 15

The Certificate in User Experience requires 15 hours and prepares students for changes now underway in the fields of advertising, communication, public relations, computer programming, graphic design, and other related majors relating to interactive platform design and function.

Students are required to take the following courses to fulfill the requirements for the Certificate in User Experience: AD 210/SJB 210, UX 320, UX 330, UX 340, and UX 400.

Department of Diversity and Community Studies

Dr. Jane Olmsted, Head

Building Location: Women's Studies Center
Phone: (270) 745-5787; Fax: (270) 745-6861
Email: dcs@wku.edu
Website: www.wku.edu/dcs

Professor: J. Olmsted
Associate Professors: K. Branham, Y. Getch, M. Kerby
Assistant Professors: D. Cuomo, C. Hopson,

The Department of Diversity and Community Studies houses five programs, which offer the following majors, minors or undergraduate certificates: Diversity and Community Studies (major); African American Studies (minor); Gender and Women's Studies (minor); and Citizenship and Social Responsibility (minor).

These interdisciplinary programs share certain important affinities:

- Conceptual frameworks for understanding diverse communities, their histories and contemporary expressions, the structural challenges they face, and the contributions they offer to the fabric of American society;
- A commitment to working for social justice and equality of treatment across differences;
- A record of working collaboratively within communities — in service projects as well as participatory research;
- An understanding that social systems are interconnected in perpetuating institutional oppression and dominant group privilege;
- A conviction that interdisciplinary analysis and community experience are essential to addressing real world problems.

Individually, the programs focus on the particular issues and sectors of society that define their curriculum, programming, and outreach.

For more information about our department, visit www.wku.edu/dcs and the websites associated with our programs (below).

Major in Diversity and Community Studies

Program Coordinator: K. Branham

Email: dcstudies@wku.edu
Website: http://www.wku.edu/dcs/

Reference Number: 631
Minimum Hours for Major: 33

Minimum Hours for Degree:120
Degree: Bachelor of Arts

Suggested Degree Path: http://wku.edu/degreepaths/18-19/documents/uc/diversity_and_community_studies_631.pdf

The Diversity and Community Studies major provides graduates with a critical framework for understanding multiple intersecting systems of oppression, practices and strategies of resistance, and movements for social change. Drawing on interdisciplinary theory, practices, and analyses, the major examines intersecting systems of oppression at local and global scales. By taking on diverse perspectives, students hone their problem-solving skills and gain practical skills related to citizenship and advocacy. Such knowledge and skills are necessary for a wide range of vocations, ranging from social services to governmental and non-profit organizations. The major prepares students for advanced study in a range of interdisciplinary fields and for jobs that strive to alleviate social inequities and to improve the quality of life in diverse communities. A minor or second major is required.

The following 15 hours are required for the major: CSJ 200, DCS 300, AFAM 190, GWS 200, and DCS 400. Students are required to take an additional 18 hours of electives, selecting at least six hours from each of the following three categories:

Category I: Formations of Identity and Narratives of Oppression (minimum of 6 hours): COMM 463, DCS 363, ENG 360, ENG 370, ENG 387, ENG 393, FACS 395, GWS 375, HIST 310, HIST 353, PSY 355, RELS 333, SOCL 210, SUS 295.

Category II: Advocacy and Social Change (minimum of 6 hours): AFAM 333, AFAM 343, GWS 350, HIST 358, HIST 359, HIST 380, HIST 453, CSJ 435, PS 373, PS 331, PS 374, SJB 310, SOCL 350.

Category III: Systems, Local to Global (minimum of 6 hours): DCS 360, ECON 434, FLK 330, GEOG 110, GEOG 225, HIST 200, HIST 446, PS 220, PS 350, RELS 408, SOCL 240, SOCL 360, SWRK 330.

African American Studies

Director: Dr. Saundra Ardrey
Email: Saundra.Ardrey@wku.edu
Grise Hall, Office 314; (270) 745-4558

Fax: (270) 745-2945
Email: afam@wku.edu
Website: www.wku.edu/afam

Minor in African American Studies

Reference Number: 305
Minimum Hours for Minor: 21

The minor in African American Studies requires a minimum of 21 semester hours. Required courses are AFAM 190, AFAM 343, AFAM 353, and twelve additional credit hours of restricted electives, as follows: at least one history course form HIST 330, HIST 359, or HIST 390; at least one cultural studies course from the following: ENG 393, COMM 463, FLK 330, or REL 309; and remaining six hours from the electives listed below.

The minor in African American Studies compresses the unique and diverse experiences of African Americans into a manageable and definable programs of study that acknowledges the interconnectedness of these experiences with the peoples of Africa and the African Diaspora. Viewed from multidisciplinary and cross-disciplinary perspectives, courses in the African American studies minor provide the opportunity for students to study, analyze and develop a comprehensive understanding of the African American experience in ways that both link and differentiate past and present circumstances in the African Diaspora. A diaspora approach to the study of the African American experience is concerned with the following two issues: 1) the way in which African cultural, social, religious, and political forms influence African descended persons and communities, and how such forms changed through interaction with non-African cultures; and 2) comparisons and correspondence among communities of African descended people who are geographically separated and/or culturally distinct.

A person who completes the African American Studies minor will have enlarged perspectives and increased awareness of the diversity of experience within African American cultures; these are skills well suited for advanced study at the undergraduate and graduate levels, and for jobs in governmental departments and agencies and with private organizations. In fulfilling the minimum requirements for a minor, the student normally should not include more than six hours of electives with any one course prefix.

Approved electives include: at least one of the following history courses: HIST 330, HIST 359, or HIST 390; at least one of the following cultural studies courses: ENG 393, COMM 346, FLK 330, or REL 309; and two additional courses from the following: AFAM 490, CSJ 200, CRIM 436, SOCL 260, and SOCL 362. Additional courses may be approved by the advisor.

Honors Program
The African American Studies Program participates in the Dixie and Peter Mahurin Honors College. Honors courses allow students of exceptional academic abilities to investigate the African American experience in a more in-depth manner and to discuss contemporary issues in small group settings. Honors courses encourage the development of critical thinking skills and analytical writing. Students also have an opportunity to assist faculty with research, present papers at regional and national conferences, and/or engage in self-designed research projects. African American Studies minors in the Dixie and Peter Mahurin Honors College can complete their honors thesis on a topic in consultation with an advisor. For further information on honors courses and opportunities, contact Dr. Saundra Curry Ardrey, (270) 745-4558.

Center for Citizenship & Social Justice

Director: Leah Ashwill

Phone: (270) 745-3217
Email: ccsj@wku.edu
Website: www.wku.edu/ccsj

The Center for Citizenship & Social Justice is committed to engaging students in academic experiences that empower them to address complex social issues. Through experiential learning opportunities, students apply course concepts as they develop civic values. CCSJ coursework, along with a wide array of events and co-curricular activities provide students with opportunities to explore contemporary social, economic, and political issues in a supportive community. In this way, the CCSJ prepares students to be productive members and leaders of their communities and to contribute to the common good.

Minor in Citizenship & Social Justice

Program Coordinator: L. Ashwill

Reference Number: 349
Minimum Hours for Minor: 22

A minor in Citizenship & Social Justice provides graduates with a foundational understanding of concepts, issues, strategies, and practices of social justice from interdisciplinary and community-based perspectives. Students will engage in citizenship and social justice through multiple lenses of critical theory. The minors requires the following 10 hours of coursework: CSJ 200 (3 credits), CSJ 301 (3 credits), CSJ 435 (3 credits), and CSJ 499 (1 credit).

Students are required to take an additional 12 hours of electives, selecting from at least three different programs/departments, and insuring that at least 11 of their minor credits are from upper-level courses. The following electives are approved. Additional courses may be considered after consultation from the CCSJ Director: AFAM 190, AFAM 333, AFAM 343, ANTH 120, ANTH 360, ANTH 343, FLK 377/AFAM 377, FLK 342/ANTH 342, FLK 330, FLK 480, DCS 300, DCS 360, DCS 363, ECON 434, ECON 445, EDU 200, ENG 360, ENG 370, ENG 393, ENG 397, GEOG 225, GEOG 330, GEOG 344, GEOG 380, GWS 200, GWS 301, GWS 375, GWS 400, HIST 379, HIST 380, HIST 420, HIST 430, HIST 446, HIST 453, HIST 481, HON 251, LEAD 330, PHIL 103, PHIL 202, PHIL 208, PHIL 212, PHIL 323, PHIL 324, PHIL 333, PHIL 427, PHIL 350, PS 110, PS 373, PS 435, PSY 355, RELS 202, RELS 323, RELS 333, SOCL 240, SOCL 312, SOCL 355, SOCL 359, SOCL 362, SOCL 452, SWRK 300, SWRK 325, THEA 341.

Gender & Women's Studies

Phone: (270) 745-6477
Email: womensstudies@wku.edu
Website: www.wku.edu/womensstudies

Director: Dr. Kristi Branham
Location: Women's Studies Center
Email: Kristi.Branham@wku.edu

Minor in Gender & Women's Studies

Reference Number: 378
Minimum Hours for Minor: 21
Mission Statement
The Gender & Women's Studies Program broadens students' knowledge of gender dynamics, globally and historically, with an emphasis on issues central to women's lives. Through an interdisciplinary classroom experience, community outreach, and special events, the Gender and Women's Studies Program advances understanding of the social and cultural institutions and practices that affect us.

Goals:

- sharpen ability to critically analyze gender issues
- encourage the practice of feminist scholarship
- enhance intellectual and personal growth
- foster an atmosphere in which diversity and sustainability are valued
- advocate ethical conduct, social justice, and responsible global citizenship

The interdisciplinary minor in Gender and Women's Studies requires 21 semester hours. Course requirements include a 6-hour core composed of Introduction to Gender and Women's Studies (GWS 200) and Western Feminist Thought (GWS 400) and fifteen hours of electives in the humanities, the sciences, or social sciences. Students select an area of concentration by taking nine hours in Category A or B; the remaining six are then taken from the other category. No more than six hours of electives may be taken in any one department. Because new courses are added and occasionally dropped from the categories below, students should consult the latest information on the website (www.wku.edu/womensstudies) or in the Women's Studies Center.

Category A (Sciences and Social Sciences): CRIM 446; FACS 495; GWS 421; PS 373, PS 374; PH 365, PH 464; PSYS 345, PSYS 430; PSY 355; SOCL 355, SOCL 359, SOCL 362, SOCL 435, SOCL 466.
Category B (Humanities): ANTH 343; DANC 360; ENG 360, ENG 387, ENG 497; FLK 280, FLK 371, FLK 480; GWS 321; HIST 335, HIST 420, HIST 446, HIST 453; PHIL 212; RELS 333, RELS 408.
Category A or B: GWS 375

Additional offerings include special topics courses in various disciplines.

Graduate Programs — The Department of Diversity and Community Studies offers the Master of Arts in Social Responsibility & Sustainability Communities and several graduate certificates. For additional information, see http://catalog.wku.edu/graduate or contact the department.

Department of English

Dr. Robert Hale, Head
Email: Rob.Hale@wku.edu

Cherry Hall, Office 135
Phone: (270) 745-3043; Fax: (270) 745-2533
Website: http://www.wku.edu/english

Peggy Otto, English for Secondary Teachers Advisor
Alison Langdon, Literature Advisor
Jeff Rice, Professional and Creative Writing Advisor
Walker Rutledge, Honors Advisor
Alex Poole, TESL Advisor
David Lenoir, Director of Composition
David Bell, Director of Creative Writing
Wes Berry, Director of Graduate Studies

Professors: W. Berry, L. Davies, N. Endres, J. Fife, R. Hale, E. Hall, T. Hovet, S. Hughes, T. Hunley, A. Langdon, D. LeNoir, D. Logan, A. Poole, M. Price, E. Winkler
Associate Professors: D. Bell, T.Brotherton, J. Hollyfield, A. Jones, C. Keller, M. Miller, P, Otto, K. Reames, J. Rice, D . Rigby, L. Spears, J. Szerdahelyi
Assistant Professors: J. Folk, T. Jaggers, G. Knoll, D. Liddle, Rutledge, T. Stickle, R. Thompson, A. Youngblood, M. Zubel
Instructor II: F. Alvarez, T. Elliott, D. Hays
Instructor I: M. Turley
Transitional Retiree: L. Dill

The Department of English offers four programs of study: a major in English with specialized options in Creative writing, literature, and professional writing; a major in English for Secondary Teachers; and minors in English, creative writing, professional writing, literature, and teaching English as a second language (TESL). In addition, the department sponsors an honors program for qualified students.

The English department also makes a significant contribution to the general education of all students through ENG 100, ENG 200, and ENG 300. The department serves other departments through its offerings in intermediate composition, technical writing, business writing, linguistics, film, women's literature/gender theory, teaching English as a second language, and teaching English in the schools.

English majors and minors find that their training in close reading, analyzing, researching, and writing is valuable preparation for a broad range of business, governmental, and professional careers. The major in English for Secondary Teachers prepares students for certification to teach grades 8-12.

When planning a program of study in English, each student should be aware of the academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should also be aware that academic programs may have additional requirements not specified in the catalog. To obtain a copy of these requirements, students should contact the Department head or the appropriate advisor.

Major in English

Reference Number: 662
Minimum Hours for Major: 42
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path for Concentration:
Creative Writing: http://wku.edu/degreepaths/18-19/documents/pcal/english_creative_writing_662.pdf
Literature: http://wku.edu/degreepaths/18-19/documents/pcal/english_literature_662.pdf
Professional Writing: https://www.wku.edu/degreepaths/18-19/documents/pcal/english_professional_writing_662.pdf

All English major concentrations require 42 semester hours with 27 hours in the core and 15 hours in the concentration. Students must take an introduction to the major course (ENG 299), three literature survey courses (ENG 385 and either ENG 381 and ENG 392 or ENG 382 and ENG 391), a language course (ENG 204), two writing courses (ENG 203, ENG 306, ENG 307, ENG 401, or ENG 410) AND (ENG 212, ENG 301, or ENG 412), and a capstone (ENG 413, ENG 414, or ENG 416, depending on their concentration).

The **creative writing concentration** requires a minimum of 42 hours and leads to the Bachelor of Arts degree. A minor or second major is required. Requirements include ENG 204, ENG 299, ENG 312, ENG 385, and ENG 413 (capstone, which should be taken in the final semester of coursework); either of the following clusters: (ENG 381 and ENG 392) or (ENG 382 and ENG 391); one course from each of the following groups (ENG 203*, ENG 306, ENG 307, ENG 401, ENG 410) AND (ENG 212, ENG 301, ENG 412); any four of the following courses: ENG 303, ENG 305, ENG 311, ENG 329, ENG 358, ENG 403, ENG 411, ENG 474, ENG 475, and ENG 467; and one 300- or 400-level literature elective from department offerings. A grade of "C" or higher is required in all courses applying to this major. *Note: ENG 203 is a required prerequisite to the upper-level creative writing courses.*

The **literature concentration** in English requires a minimum of 42 semester hours and leads to a Bachelor of Arts degree. A minor or second major is required. Requirements for the major are as follows: ENG 204, ENG 299, ENG 381, ENG 382, ENG 385, ENG 391, ENG 392, ENG 416, (senior capstone, which should be taken in the last semester of coursework); one course from each of the following groups (ENG 203, ENG 306, ENG 307, ENG 401, ENG 410) AND (ENG 212, ENG 301, ENG 412); and four additional three-credit, upper-level literature courses. A grade of "C" or higher is required in all courses applying to the major. At least one of the restricted electives must be at the 400-level.

The **professional writing concentration** requires a minimum of 42 hours and leads to the Bachelor of Arts degree. A minor or second major is required. Requirements include ENG 204, ENG 299, ENG 385, and ENG 414 (capstone, which should be taken the final semester of coursework); either of the following clusters: (ENG 381 and ENG 392) or (ENG 382 and ENG 391); one course from EACH of the following groups (ENG 203, ENG 306*, ENG 307*, ENG 401, ENG 410) AND (ENG 212, ENG 301, ENG 412); any five of the following concentration electives, but no more than two from outside of the English Department: ENG 212, ENG 301, ENG 306, ENG 307, ENG 349, ENG 369, ENG 401, ENG 402, ENG 412, ENG 415, MKT 220, MKT 331, PR 354, PJ 131, BCOM 264; and one 300- or 400-level literature elective from department offerings. A grade of "C" or higher is required in all courses applying to the major. *It is strongly recommended that students in the professional writing concentration complete an internship (ENG 369).* *Note: ENG 306 or ENG 307 is a prerequisite for most professional writing classes.

Major in English for Secondary Teachers

Reference Number: 561
Minimum Hours for Major: 54
Minimum Hours for Degree: 126
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/english_secondary_teachers_561.pdf

The major in English for secondary teachers is intended for those seeking certification to teach in grades 8-12. It requires a minimum of 54 semester hours and leads to a Bachelor of Arts degree. No minor or second major is required. (Teacher certification requires an additional 33 hours of education courses specified by the College of Education and Behavioral Sciences.) A grade of "C" or higher is required in all courses applying to the major. Requirements for the major are as follows: ENG 104, ENG 204, ENG 299, ENG 301, ENG 385, ENG 391, ENG 410, ENG 416; COMM 145; THEA 151*; ENG 476. In addition, students must complete the following:

- Cluster #1 Literature Surveys (6 hours): ENG 381, ENG 382, ENG 392.
- Cluster #2 Allied Language Arts (6 hours): COMM 245, COMM 345, JOUR 202, THEA 425, THEA 325.
- Cluster #3 Writing Electives (3 hours): ENG 212, ENG 303, ENG 305, ENG 311, ENG 329, ENG 358, ENG 401, ENG 402, ENG 415.
- Cluster #4 Literature Elective (3 hours): ENG 333, ENG 339, ENG 340, ENG 354, ENG 355, ENG 365, ENG 387, ENG 394, ENG 395, ENG 396, ENG 398, ENG 430, ENG 455, ENG 457, ENG 459, ENG 468, ENG 481, ENG 482, ENG 484, ENG 486, ENG 487, ENG 488, ENG 489, ENG 490, ENG 493, ENG 495.
- Cluster #5 Literature of Diversity (3 hours): ENG 360, ENG 370, ENG 393, ENG 497.

*COMM 145 and THEA 151 also count as Colonnade courses.

NOTE: A former requirement – either CIS 141 or LME 448 – is now recommended only for students who perceive a weakness in their technology skills.

Professional Education Courses (34 hours): EDU 250, PSY 310, SEC 350, SEC 450, SEC 475, LTCY 421, SEC 490, and EDU 489.

Total English with Secondary Certification: 88 hours**.**

Minor in Creative Writing

Reference Number: 348
Minimum Hours for Minor: 21

The minor in creative writing requires a minimum of 21 semester hours. Requirements include ENG 203 (prerequisite to the upper-level creative writing courses); any four of the following creative writing courses: ENG 303, ENG 305, ENG 311, ENG 329, ENG 358, ENG 399 (creative writing topics only), ENG 403, ENG 413, ENG 467, ENG 474, and ENG 475; and any two 300- or 400-level literature courses selected from the following list: ENG 333, ENG 339, ENG 340, ENG 354, ENG 355, ENG 360, ENG 365, ENG 370, ENG 381, ENG 382, ENG 385, ENG 387, ENG 391, ENG 392, ENG 393, ENG 394, ENG 395, ENG 396, ENG 398, ENG 399 (literature topics only), ENG 430, ENG 455, ENG 457, ENG 459, ENG 460, ENG 468, ENG 481, ENG 482, ENG 484, ENG 486, ENG 487, ENG 488, ENG 489, ENG 490, ENG 493, ENG 495, ENG 497.

(In consultation with the advisor, creative writing students should consider taking at least one of the electives in contemporary literature). No more than six hours in a major may apply toward the creative writing minor for a total of at least 54 unduplicated hours between the major and minor.

Minor in English

Reference Number: 359
Minimum Hours for Minor: 21

The minor in English requires a minimum of 21 semester hours as follows: ENG 204, six hours of literature surveys (either ENG 381 and ENG 392 or ENG 382 and ENG 391), three hours of upper-level literature, three hours from each of the following groups (ENG 203. ENG 306, ENG 307, ENG 401, ENG 410) AND (ENG 212, ENG 301, ENG 412) and three hours of English electives.

Minor in Literature

Reference Number: 406
Minimum Hours for Minor: 21

The minor in literature requires a minimum of 21 semester hours. Requirements include 12 hours of upper-level literature electives, six hours of literature surveys (either ENG 381 and ENG 392 or ENG 382 and ENG 391), and three hours of upper-level English electives.

Students majoring in English with a concentration in Creative Writing or Professional Writing may not duplicate ENG 381, ENG 382, ENG 391, or ENG 392 from the major. English majors with a concentration in literature (662L) cannot take this minor. No more than six hours in the English major may apply toward the literature minor, for a total of at least 54 unduplicated hours between the major and minor. Up to three hours of upper-level literature courses offered in other departments (e.g. Folk Studies, Library Media Education) may be counted toward the literature minor with prior approval by the English Department.

Minor in Professional Writing

Reference Number: 437
Minimum Hours for Minor: 21

The minor in professional writing requires a minimum of 21 semester hours. Requirements include either ENG 306 or ENG 307; ENG 401, ENG 402, ENG 412, ENG 414, ENG 212 or ENG 415; and one of the following courses: ENG 301, ENG 349, or ENG 369. ENG 414 Professional Writing Capstone should be taken after completing of at least 12 hours toward the minor. No more than six hours in the English major may apply toward the professional writing minor, for a total of at least 54 unduplicated hours between the major and minor.

Minor in Teaching English as a Second Language (TESL)

Reference Number: 478
Minimum Hours for Minor: 19

The minor in teaching English as a second language (TESL) will prepare students interested in linguistics and language teaching to pursue teaching opportunities in private corporations or overseas in both corporations and public schools. The minor in teaching English as a second language requires a minimum of 19 credit hours, including either ENG 104, ENG 204 or ENG 302 (or the equivalent), and ENG 407, ENG 408, ENG 469, ENG 470, and ENG 471. In addition, all students will be required to complete two semesters of the same international language at the college level or the language requirements of the Colonnade Program. ENG 104, ENG 204 or ENG 302 (or equivalent) is a prerequisite for ENG 407. ENG 407 is the prerequisite for ENG 408. ENG 471 must be completed at the end of coursework. *Students who complete the TESL minor and also qualify for teacher certification may also qualify for the TESL endorsement.*

Endorsement to Teach English as a Second Language (ESL)

Persons who have certification to teach in the elementary, middle, or secondary grades can add on to that certification an endorsement in teaching English as a Second Language by completing the following courses: ENG 104, ENG 204 or ENG 302, ENG 407, ENG 408, ENG 469, ENG 470, ENG 471 and six hours of a foreign language or the language requirements of the Colonnade Program. The student must also complete the ESL Praxis test with a minimum score of 157.

Honors − In cooperation with the Dixie and Pete Mahurin Honors College, the Department of English offers a number of courses designed to challenge and reward honors-eligible students studying English. Fostering a sense of community among outstanding students, the English honors courses also facilitate graduate school admission and job placement. Participants enjoy opportunities for discussion and instruction in small classes, as well as for independent research and membership in Sigma Tau Delta − the International English Honor Society.

Additionally, English majors who choose to write a six-credit-hour Honors Thesis may apply three of those credit hours toward their upper-division English electives. For information, contact Walker Rutledge, English Honors Advisor (walker.rutledge@wku.edu).

Graduate Programs – The Department offers a Masters of Arts in English, Master of Fine Arts in Creative Writing, a graduate certificate in Teaching English to Speakers of Other Languages, and several options for students seeking advanced teacher certification. Additional information is available at www.wku.edu/graduate.

Department of Folk Studies and Anthropology

Dr. Darlene Applegate, Head
Email: Darlene.Applegate@wku.edu

Ivan Wilson Center for Fine Arts, Office 237
Phone: (270) 745-6549; Fax: (270) 745-6889
Website: www.wku.edu/fsa

Associate Professors: D. Applegate, T. Evans, A. Ferrell, J. Houle, K. Hudepohl
Assistant Professors: T. Frandy, K. Horigan, A. Stinnett
Clinical Assistant Professor: B. Bjorkman
Instructor II: B. Kaufkins
Transitional Retiree: E. Brady

The programs and coursework of the Department of Folk Studies and Anthropology have the goal of providing WKU students and the University constituency with the training, intellectual tools, and resources to understand the cultural and biological dimensions of humankind in terms of the myriad shaping factors addressed in our respective disciplines. Although the disciplines of anthropology and folk studies are distinct, they share the University's commitment to excellence in teaching, research, and public service, recognizing that this mission continues to evolve in response to regional, national, and global change.

Both undergraduate and graduate programs in folk studies stress the examination of traditional expressive culture as a key to understanding human experience. The discipline of folklore has close affinities with literature, anthropology, sociology, history, geography, linguistics, philosophy, ethnomusicology, and psychology. The folk studies program integrates humanistic and social scientific perspectives on culture with pragmatic skills needed for professional involvement in research or for a variety of fields of employment such as public and applied folklore, historic preservation, cultural resource management and museum work.

In response to the growing importance of cross-cultural studies, the department offers an undergraduate minor in folklore in order to provide students with opportunities to enrich their general knowledge of the folk traditions and customs of specific societies and culture areas and to develop greater understanding of related forms of human thought and expression.

The anthropology program at Western Kentucky University offers students a coherent program of study that enriches their knowledge of human culture, develops their cross-disciplinary perspectives, and prepares them for a variety of careers. In particular, the program provides opportunities for students to study the interaction of culture and biology, both in contemporary societies as well as in the archaeological and evolutionary past. The curriculum prepares students for graduate studies and employment in cultural anthropology, biological anthropology, archaeology, linguistic anthropology, or cultural resource management.

Anthropology enriches the study of history, religion, languages, biological and physical sciences, and other social sciences. The anthropology program maintains extensive archaeological, biological, and cultural collections at the Anthropology Laboratory. The anthropology program also houses a state-of-the-art Ethnographic Visual Production Lab with digital audio and video recorders and cameras, virtual reality equipment, and editing stations.

When planning programs of study in this department, students should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the Department Head.

Major in Anthropology

Program Coordinator: D. Applegate

Reference Number: 608
Minimum Hours for Major: 30

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path for Concentration:
Archaeology: https://www.wku.edu/degreepaths/18-19/documents/pcal/anthropology_archaeology_conc_608.pdf
Biological Anthropology: http://wku.edu/degreepaths/18-19/documents/pcal/anthropology_biological_conc_608.pdf
Cultural Anthropology: http://wku.edu/degreepaths/18-19/documents/pcal/anthropology_cult_anthropology_608.pdf
Cultural Resource Management: http://wku.edu/degreepaths/18-19/documents/pcal/anthropology_cultural_resource_mgmt_608.pdf

At least half of the total semester hours in the major must be in upper-division (300, 400) courses. Requirements of the major include core courses, concentration courses, and electives.

All students complete the five-course (15-hour) core curriculum consisting of ANTH 120, ANTH 125, ANTH 130, ANTH 135, and ANTH 399. Each student completes at least one, three-course (9-hour) concentration in Archeology, Biological Anthropology, Cultural Anthropology or Cultural Resource Management, each concentration having its own required courses. Students choosing to complete only one concentration must complete 6 hours of electives to be selected from anthropology offerings in consultation with the advisor. Students choosing to complete more than one concentration do not have to complete electives. Students must earn a grade of "C" or better in all core courses of the anthropology major. Students must complete a second major or a minor.

Core Requirements completed by all majors (15 hours): ANTH 120, ANTH 125, ANTH 130, ANTH 135, and ANTH 399

Concentration Requirements (9 hours): Select at least one concentration:

***Archaeology*:** One course selected from ANTH 335 and ANTH 336; at least three hours in ANTH 432; ANTH 438.

***Biological Anthropology*:** ANTH 300, ANTH 305, ANTH 450.

***Cultural Anthropology*:** One area course selected from: ANTH 340, ANTH 342, ANTH 345, ANTH 350 and ANTH 378; one topics course selected from ANTH 343, ANTH 382, ANTH 400, ANTH 410, ANTH 442, ANTH 446, ANTH 448 and ANTH 449; one additional area or topics course.

***Cultural Resource Management*:** ANTH 436; two courses selected from ANTH 434, ANTH 470, and ANTH 493, FLK 434, FLK 445, FLK 446, and FLK 464.

Electives for students completing one concentration (6 Hours): To be selected from anthropology offerings in consultation with advisor.

Minor in Anthropology

Program Coordinator: D. Applegate

Reference Number: 311
Minimum Hours for Minor: 21

A minor in anthropology requires a minimum of 21 semester hours. At least 12 hours must be in upper-division (300, 400) courses. Each student must complete four required core courses: ANTH 399 and three courses selected from ANTH 120, ANTH 125, ANTH 130, and ANTH 135. In addition, each student must complete 9 hours of upper-division elective courses (with approval of advisor). Students must earn a grade of "C" or better in all core courses of the anthropology minor.

Core Requirements completed by all minors (12 hours): Three courses selected from ANTH 120, ANTH 125, ANTH 130, ANTH 135; and ANTH 399

Electives (9 hours): To be selected from anthropology offerings in consultation with advisor

Minor in Folklore

Program Coordinator: D. Applegate

Reference Number: 362
Minimum Hours for Minor: 21

The minor in folklore requires a minimum of 21 semester hours. Required courses are FLK 276, FLK 399, and fifteen hours of restricted electives, at least one of which must be at the 400-level (excluding FLK 479 and FLK 489), selected in consultation with the program advisor. Students must earn a grade of "C" or better in all courses applied to the folklore minor.

Graduate Programs – The Department of Folk Studies and Anthropology offers a Master of Arts in Folk Studies and a graduate certificate in Historic Preservation. Several graduate assistantships are available each year. Inquiries about courses and degree programs in folk studies should be addressed to Dr. Ann Ferrell, Director of Folk Studies (270) 745-5896, ann.ferrell@wku.edu. Additional information available at www.wku.edu/graduate.

Department of History

Dr. Eric Reed, Head
Email: Eric.Reed@wku.edu

Cherry Hall, Office 200
Phone: (270) 745-3841; Fax: (270) 745-2950
Website: www.wku.edu/history

Tamara Van Dyken, Undergraduate Advisor
Jennifer Hanley, Undergraduate Advisor
Marko Dumančić, Director of Graduate Studies

Professors: A. Harkins, G. LaFantasie, D. Lee, A. McMichael, P. Minter, E. Reed
Associate Professors: D. Browder, R. Dietle, M. Dumančić, M. Eagle, J. Hanley, A. Harkins, A. Jennings, E. Kondratieff, S. Sanderfer, A. Rosa, J. Romero, T. Van Dyken
Assistant Professors: K. Brown, J. Miner, A. Olson
Instructor I: D. Serafini
Professors Emeriti: J. Baker, C. Bussey, P. Cook, J. Hardin, D. Harrington, R. Haynes, M. Lucas, F. Murphy, R. Stone, R. Troutman, R. Weigel

History is the record of the collective experience of humanity. It provides perspective and knowledge which helps us understand the present and it provides hope that we may avoid past mistakes. As the broadest of all academic disciplines, history appeals to the curious mind which is not content only with understanding the present. History equips students with the skills to collect, analyze, and use data and the ability to apply those skills to construct arguments and use evidence to support them. Because of its breadth, the study of history prepares students for numerous occupations and professions. Many of our majors pursue careers in education from the elementary through college level. There are, however, a variety of other areas open to the student of history: local, state, and federal government, the Foreign Service, law, professional library work, the national park service, banking, journalism, politics, and a host of others. In addition, many businesses seek candidates with a strong background in the liberal arts because of their critical thinking, analytic, and writing abilities all areas in which history students excel.

The Department of History offers a variety of courses to students in any major, as well as courses meeting Colonnade requirements for all students. Students who complete a co-major in social studies and who complete the professional education requirements may be certified in the teacher education program.

When planning a program of study in this department, each student should be aware of the university's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the chapter subsections entitled "Academic Requirements and Regulations," "Academic Programs," and "Colonnade Requirements." Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the Department Head.

Major in History

Reference Number: 695
Minimum Hours for Major: 33
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/history_695.pdf

The major in history (reference number 695) requires a minimum of 33 semester hours and leads to a Bachelor of Arts degree. A minor or second major is required.

The following 9 hours of core courses are required for the major: HIST 101 or HIST 102, HIST 240 or HIST 241, and HIST 498.

Of the remaining 24 hours, a minimum of 18 hours in upper-division history courses is required.

At least two upper-division courses from each of the following geographic and chronological areas are required:

- ***Geographic: Afro-Eurasia and The Americas***:
  Courses meeting the Afro-Eurasia category are: HIST 299, HIST 305, HIST 306, HIST 308, HIST 310, HIST 317, HIST 318, HIST 322, HIST 323, HIST 324, HIST 330, HIST 331, HIST 333, HIST 334, HIST 335, HIST 338, HIST 340, HIST 360, HIST 370, HIST 379, HIST 380, HIST 391, HIST 402, HIST 404, HIST 407, HIST 419, HIST 420, HIST 422, HIST 425, HIST 426, HIST 428, HIST 438, HIST 439, HIST 449, HIST 460, HIST 461, HIST 462, HIST 463, HIST 471, HIST 472, HIST 480.

  Courses meeting The Americas category are: HIST 200, HIST 310, HIST 320, HIST 321, HIST 325, HIST 333, HIST 341, HIST 346, HIST 347, HIST 348, HIST 349, HIST 352, HIST 353, HIST 358, HIST 359, HIST 364, HIST 365, HIST 380, HIST 390, HIST 402, HIST 420, HIST 430, HIST 440, HIST 441, HIST 442, HIST 443, HIST 444, HIST 445, HIST 446, HIST 447, HIST 448, HIST 450, HIST 451, HIST 453, HIST 454, HIST 456, HIST 457, HIST 458, HIST 463, HIST 464, HIST 465, HIST 481, HIST 492, HIST494.

- ***Chronological: Pre-Modern Era (Pre-1700) and Modern Era (Post 1700):***
  Courses meeting the Pre-Modern Era category are: HIST 305, HIST 306, HIST 307, HIST 308, HIST 317, HIST 318, HIST 323, HIST 330, HIST 353, HIST 402, HIST 404, HIST 407, HIST 419, HIST 440, HIST 460, HIST 463.

  Courses meeting the Modern Era (Post 1700) are: HIST 200, HIST 299, HIST 310, HIST 320, HIST 321, HIST 322, HIST 324, HIST 325, HIST 331, HIST 333, HIST 334, HIST 335, HIST 338, HIST 340, HIST 341, HIST 346, HIST 347, HIST 348, HIST 349, HIST 352, HIST 358, HIST 359, HIST 360, HIST 364, HIST 365, HIST 370, HIST 379, HIST 380, HIST 390, HIST 391, HIST 402, HIST 420, HIST 422, HIST 425, HIST 426, HIST 428, HIST 430, HIST 438, HIST 439, HIST 441, HIST 442, HIST 443, HIST 444, HIST 445, HIST 446, HIST 447, HIST 448, HIST 449, HIST 450, HIST 451, HIST 453, HIST 454, HIST 456, HIST 457, HIST 458, HIST 461, HIST 462, HIST 464, HIST 465, HIST 471, HIST 472, HIST 480, HIST 481, HIST 492, HIST 494.

At least three upper-division courses in one of the following four thematic categories are required:

- ***Cultural, Religious and Intellectual History:***
  Courses meeting the Cultural, Religious and Intellectual History category are: HIST 200, HIST 305, HIST 306, HIST 307, HIST 317, HIST 318, HIST 320, HIST 322, HIST 323, HIST 324, HIST 325, HIST 334, HIST 335, HIST 338, HIST 340, HIST 341, HIST 347, HIST 348, HIST 349, HIST 352, HIST 360, HIST 365, HIST 370, HIST 391, HIST 420, HIST 425, HIST 426, HIST 428, HIST 438, HIST 439, HIST 444, HIST 447, HIST 449, HIST 453, HIST 453, HIST 456, HIST 457, HIST 458, HIST 461, HIST 463, and HIST 353.

- ***Race, Ethnicity, and Identity:***
  Courses meeting the Race, Ethnicity, and Identity category are: HIST 308, HIST 320, HIST 321, HIST 325, HIST 330, HIST 331, HIST 334, HIST 349, HIST 352, HIST 358, HIST 359, HIST 360, HIST 364, HIST 370, HIST 390, HIST 404, HIST 420, HIST 425, HIST 430, HIST 440, HIST 447, HIST 449, HIST 453, HIST 456, HIST 457, HIST 458, HIST 461, HIST 463, HIST 353.

- ***Peace, Conflict, and Human Rights:***
  Courses meeting the Peace, Conflict, and Human Rights category are: HIST 299, HIST 305, HIST 306, HIST 308, HIST 310, HIST 333, HIST 334, HIST 346, HIST 348, HIST 352, HIST 370, HIST 379, HIST 380, HIST 402, HIST 407, HIST 419, HIST 422, HIST 425, HIST 426, HIST 428, HIST 430, HIST 439, HIST 441, HIST 443, HIST 449, HIST 450, HIST 451, HIST 462, HIST 462, HIST 464, HIST 471, HIST 472, HIST 481, HIST 494.

- ***Legal and Constitutional Heritage:***
  Courses meeting the Legal and Constitutional Heritage category are: HIST 305, HIST 306, HIST 322, HIST 323, HIST 324, HIST 325, HIST 419, HIST 422, HIST 441, HIST 443, HIST 444, HIST 445, HIST 446, HIST 450, HIST 451.

Note: A single elective can count toward completion of more than one category (e.g., a student may count HIST 333 toward the completion of “Afro-Eurasia,” “Modern Era,” and “Peace, Conflict, and Human Rights” category.)

Restricted elective (6 hours): A student may select two elective courses outside of the major, but only in consultation with departmental faculty advisor and with the approval of the department head.

Major in Social Studies

Reference Number: 592
Minimum Hours for Major: 60
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/socialstudies_592.pdf
Teacher Certification Concentration: http://wku.edu/degreepaths/18-19/documents/pcal/social studies_tchr_592

The major in Social Studies requires a minimum of 60 semester hours and leads to a Bachelor of Arts degree. Students completing this major may become eligible for teacher certification in social studies. Students with a major in social studies receive a 12-hour waiver in the upper-division hour requirement in the major field.

The courses required are distributed as follows:

History: 27 hours, including HIST 101, HIST 102, HIST 240, HIST 241, and HIST 498. The remaining 12 hours must be upper-division hours and must include a course from each of the following areas: United States History, European History to 1648, European History since 1648, and areas other than Europe or the United States.
Political Science: 9 hours, including PS 110, PS 250 or PS 260, and an upper- division elective chosen from the following: PS 310, PS 316, PS 326, PS 327, PS 328, PS 357, PS 370, PS 373, or PS 435.
Economics: 6 hours, including ECON 202 and ECON 203.
Geography: 9 hours including GEOG 110; and any two of the following GEOG 330, GEOG 350, GEOG 360, GEOG 364, GEOG 378, GEOG 425, GEOG 465, GEOG 466, or GEOG 467.
Anthropology, Psychology and Sociology: 9 hours, including ANTH 120, PSY 100/PSYS 100, and SOCL 100.

In choosing elective courses, students should keep in mind the number of upper-division courses required for graduation. Students who complete this program will not be required to offer an additional major or minor for their degree and teacher certification.

Students who pursue the social studies major should also bear in mind that at least a minor in a particular discipline is required by many universities for graduate study in that discipline. The equivalent of a history minor is included in the social studies major. The number of additional hours required to meet minor requirements in PS, ECON, GEOG and SOCL is as follows: PS: 15 hours; ECON: 15 hours; GEOG: 12 hours; and SOCL: 18 hours. Students seeking to minor in any of these disciplines should consult the appropriate Department Head for specific requirements.

Teacher Education Requirements:
The major in Social Studies with Teacher Certification is intended for those seeking certification to teach in grades 8-12. It requires a minimum of 60 semester hours and leads to a Bachelor of Arts degree. No minor or second major is required. (Teacher certification requires an additional 34 hours of education courses specified by the College of Education and Behavioral sciences. A grade of "C" or higher is required in all courses applying to certification.) Requirements for the Social Studies major do not change, but the Education component does. The professional education courses required are (34 hours): EDU 250, PSY 310, SEC 350, SEC 450, SEC 481, LTCY 421, EDU 489, and SEC 490.

Minor in History

Reference Number: 392
Minimum Hours for Minor: 21

The minor in History requires a minimum of 21 semester hours. Courses required for the minor are HIST 101 or HIST 102 and HIST 240 or HIST 241. Of the remaining 15 hours, a minimum of 12 hours in upper-division history courses is required. At least two upper-division courses from each for the following geographic and chronological areas are required: Afro-Eurasia; The Americas; & Pre-Modern Era; and Modern Era. A single elective can count toward completion of more than one concentration (e.g., a student may count HIST 333 toward the completion of "Afro-Eurasia" and "Modern Era." The student must complete a restrictive elective (3 hours): A student may select one elective course outside of the minor, but only in consultation with the departmental faculty advisor and with approval of the department head.

Minor in Southern Studies

Reference Number: 462
Minimum Hours for Minor: 21

The minor in Southern Studies allows students to focus on an exploration of topics related to the U.S. South and has the following goals: to introduce students to the history and culture of the U.S. South; to provide a framework for understanding the region in a local, national, and world context; to understand the U.S. South as a region both separate from and integrated within the United States. No more than six hours of the history major may be used for completion of the minor.

The minor in southern studies requires a minimum of 21 hours, including five required courses: FLK 281, HIST 457, HIST 458, HIST 443, and ENG 495. Students also complete 6 hours from the following electives: ANTH 432, ENG 394, ENG 398, FLK 378/ANTH 378, GEOG 352, HIST 390, HIST 430, HIST 456, HIST 481, PS 377, PS 412, RELS 330, or a three-credit, service-learning component in consultation with program director. Students should consult with the program director for the suggested sequence of studies.

Departmental Honors Program

The Department of History offers an honors program for superior students that provides opportunities for a challenging and intensive investigation of historical topics in informal, small-group settings. Students with grade point averages of 3.4 or above are eligible to enroll in history honors courses. Those who fulfill designated requirements may earn a transcript notation indicating that they have graduated with honors in history. Full details of the program may be obtained by contacting Professor Patricia Minter, Office 206 in Cherry Hall.

Graduate Programs – The Department of History offers the Master of Arts degree. For more detailed information, consult. Additional information available at www.wku.edu/graduate.

Pre-Law

Pre-Law Advisor and Coordinator: Dr. Patricia Minter
Email: Patricia.Minter@wku.edu
Cherry Hall, Office 206; Phone: (270) 745-5098
Website: http://www.wku.edu/history/careers/pre-law.php

Pre-law preparation is not a curriculum as in the case of pre-medicine or other programs that follow a specific pattern of undergraduate courses. Both the American Bar Association and the American Association of Law Schools recommend a broad liberal arts program of courses for potential law students. Pre-law students will best prepare for law school by pursuing a rigorous course of study during their undergraduate years. No specific major is required for admission to law school, but students should select major and minor fields which they find both interesting and promising for superior academic performance.

Admission to law school is on a competitive basis, and the number of openings at each school is limited. The main criteria for admission to most recognized schools are a high grade point average (GPA) in undergraduate work and a high score on the Law School Admission Test (LSAT). A Bachelor of Arts or Bachelor of Science degree from an accredited four-year college or university is required for admission to law schools accredited by the American Bar Association.

Law school admission directors and independent studies of the factors which contribute to success in the study of law conclude that undergraduates should develop a core group of skills during their programs of study. It is important that students select courses that develop strong vocabulary and reading comprehension skills, effective writing ability, analytical/logical reasoning, and an understanding of societal institutions and values.

Students should pursue a challenging course of study that emphasizes reading, writing, and analytical ability. Courses which can develop the requisite skills and abilities for legal study include: ENG 100, ENG 200, ENG 300, ENG 301, and English electives; PS 110, PS 220, PS 326, PS 327, and PS 328; HIST 101, HIST 102, HIST 445, HIST 446, and history electives; PHIL 215, PHIL 350, PHIL 415 and philosophy electives. Based on individual interests, students may also pursue elective courses in accounting, economics, sociology/criminology, foreign language, and speech communication. The following courses, while not mandatory for pre-legal study, offer undergraduate students a useful introduction to various aspects of public law and legal history: PS 326, PS 327, and PS 328; HIST 445 and HIST 446; BCOM 301 or JOUR 301; MGT 200; ECON 390. Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Each student who intends to study law after graduation should make initial contact with the Pre-Law Advising program. Afterwards, students are encouraged to meet with a pre-law advisor in addition to his/her major advisor during their tenure at WKU. Pre-law advisors will provide assistance in obtaining information about law schools, the Law School Admission Test and other pertinent information. Aspiring pre-law students should plan to take the LSAT in June following their junior year. During the senior year, the pre-law advisor will also be available to assist students in the preparation and submission of applications to law schools of their choice. Applications are usually accompanied by letters of recommendation from faculty members who can comment on the student's ability and promise for the study of law. Aspiring candidates should conduct their undergraduate studies that they can, with confidence, ask at least three faculty members to serve as references.

School of Journalism & Broadcasting

Dr. Robert Dietle, Interim Director
Email: Robert.Dietle@wku.edu

Jody Richards Hall, Office 216
Phone: (270) 745-4144
Website: www.wku.edu/journalism

Professors: J. Adams-Smith, T. Broekema, P. Johnson, J. Kenney, L. Langton, G. McKerral
Associate Professors: R. DeMarse, B. Pfranger,
Assistant Professors: S. Corkren, A. Crawford, T. Newton, E. Roy, R. Shumate, M. Yambor
Transitional Retiree: J. Cherry, S. White

Mission Statement

To prepare students for a changing media environment by focusing on content, ethics, and technology**.**

- **Community Impact and Service:** Integrate a spirit of social awareness and community service among students, faculty and staff.
- **Digital Media Technology and Responsible Social Media Integration:** Promote an integrated Digital Media and Social Media approach to both education and creativity among faculty and students.
- **Hands-On Curriculum:** Maintain a curriculum that emphasizes hands-on learning and reflects global professional practices.
- **Internationally Recognized and Diverse Faculty:** Develop and support a top-tier faculty that leads its respective profession through effective teaching, creative work and active engagement in scholarship.
- **Spirit of Innovation:** Promote a culture of innovation and entrepreneurial thinking among faculty and students.
- **Embrace Collaboration:** Encourage collaboration as an opportunity to innovate and create strategic partnerships among all the disciplines.
- **Dynamic Diversity Plan:** Implement a Diversity Plan that has an inclusive curriculum; diverse faculty and student population and supportive environment. The Plan includes a domestic and international focus and is assessed annually.
- **Excellent Learning Facilities:** Maintain and enhance physical infrastructure to provide state-of-the-art learning.

Undergraduate Programs

The School of Journalism & Broadcasting offers majors in Broadcasting, Film, Journalism, and Photojournalism. Graduate courses are in sport media and branding (see The Graduate School's Catalog for details).

After having offered journalism courses for more than thirty years, Western Kentucky University created the Department of Journalism in 1977. Two years later the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC) nationally accredited the Department, designating its adherence to high standards, including emphasis on liberal arts and science education, in the attainment of a professional communication degree.

In 1999, the Department merged with the Broadcasting and Mass Communication programs to form the School of Journalism & Broadcasting. In 2000, the Commonwealth of Kentucky designated the School a "Program of Distinction," and in 2003 the School of Journalism & Broadcasting moved into a new $18 million building with state-of-the-art classrooms and labs. ACEJMC re-accredited the School in its new configuration in 2004 and again in 2016.

Between 2012 and 2018, WKU has won the Hearst Journalism Awards Intercollegiate Photojournalism Championships 5 times and the Multimedia Championships 7 times. The WKU School of Journalism & Broadcasting placed first in the 2018 Hearst Journalism Awards – continuing a multi-decade tradition of ranking among one of the top schools nationally.

The School fervently believes that a broad-based liberal arts and science curriculum is essential for a well-rounded understanding of society and that students and faculty should embrace a spirit of social awareness and service to diverse communities. It upholds the ideal that the American press system should be free, independent, and responsible.

The School and its faculty encourage students to think critically and act ethically. The School emphasizes the ability to adapt intellectually and creatively to opportunities and challenges of an increasingly complex information society.

Students are encouraged to seek practical experience through participation in student publications and broadcasting outlets as well as internships with professional organizations. They may gain experience by working on the ***College Heights Herald***, the campus newspaper, the ***Talisman*** yearbook, **WWHR**, a licensed noncommercial FM station student managed and staffed, and the **Newschannel12** newscast. Qualified students may gain additional experience on campus through staff work at the National Public Radio station, **WKYU-FM** or the Public Broadcasting System associate member station, **WKYU-TV24**.

Students are also advised to join campus chapters of the Society of Professional Journalists, the National Press Photographers Association, Radio-Television Digital News Association, Kappa Tau Alpha national society honoring scholarship in journalism, WKU Multicultural Journalists (A National Association of Black Journalists affiliate) and the WKU Storm Team.

All School of Journalism & Broadcasting students must compile a portfolio or electronic form of original work that will be reviewed in the capstone course of each program.

Each major must have a minor or second major outside the School of Journalism & Broadcasting and Film Studies. In addition, the Broadcasting major requires a minor or second major outside of the Department of Communication. Students should be aware of the university's academic requirements and regulations contained in this catalog in the chapter, "Academic Information" while planning their degree programs. Specific attention should be given to the subsections entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should develop relationships with their academic advisors and check with them for curriculum updates that might occur after the publication date of this catalog.

Major in Broadcasting

Program Coordinator: B. Pfranger

Reference Number: 726P (seeking admission)
726 (officially admitted)
Minimum Hours for Major: 45

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path for Concentration: https://www.wku.edu/degreepaths/18-19/documents/pcal/broadcasting_726.pdf

Admission Requirements
Students wishing to enter the major in Broadcasting initially are admitted as majors Seeking Admission (reference 726P). Prospective majors may take no more than 15 hours in the major before admission. Students must meet the following requirements prior to being admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.5;
3. Completion of ENG 100 with a grade of "C" or higher and 9 additional hours in general education;
4. Completion of the following courses with a grade of "C" or higher: SJB 101, SJB 102, BCOM 201 and BCOM 266.

Students not meeting the above admission requirements will not be admitted to the Broadcasting major and cannot register for any additional courses in the major.

Broadcasting Requirements
The major in Broadcasting (reference number 726) requires a minimum of 45 semester hours and leads to a Bachelor of Arts degree. Students must take a minimum of 72 semester hours in courses outside of the School of Journalism & Broadcasting, including the University's general education requirements.

In addition to meeting institutional requirements for graduation, the Broadcasting major must have a minor or second major outside of the School of Journalism & Broadcasting and Film Studies that is approved by the major faculty advisor. Students may not select a minor in Film Studies or from those offered within the School, unless taken as a second minor.

No course with a grade of "D" or below may be counted toward this major or used as a prerequisite. One-half of the hours in the major must be at the 300- or 400-level. Only 3 hours of internship or co-op may be counted within the major. One-hour workshops may be repeated in different topics up to 4 hours. Only 3 hours of workshop credit may be counted within the 45-hour major.

Required courses for a major in Broadcasting (18 hours): SJB 101, SJB 102, BCOM 201, BCOM 266, BCOM 301, and BCOM 366.

Writing elective (3 hours): BCOM 265 or BCOM 325

Diversity elective (3 hours): ANTH 448, COMM 463, CRIM 446, FLK 330, SJB 310, SOCL 355, SOCL 362, SOCL 375, SPAN 345, or a diversity class approved by an academic advisor.

Capstone experience (3 hours): BCOM 465, BCOM 482, BCOM 491, or SJB 402

Electives (18 hours): *Chosen in consultation with department faculty advisor.* Select eighteen additional hours, including at least 12 upper-division hours, from the following list: BCOM 261, BCOM 265, BCOM 300, BCOM 303, BCOM 325. BCOM 326, BCOM 328, BCOM 329, BCOM 335, BCOM 360, BCOM 361, BCOM 365, BCOM 367, BCOM 368, BCOM 369. BCOM 378, BCOM 380, BCOM 385, BCOM 401, BCOM 429, BCOM 461, BCOM 463, BCOM 466, BCOM 467, BCOM 476, BCOM 480, BCOM 481, BCOM 485, BCOM 491, FILM 201, FILM 250, JOUR 202, PJ 261, AD 210.

Major in Film

Program Coordinator: T. Newton

Reference Number: 667P (seeking admission)
667 (officially admitted)
Minimum Hours for Degree: 120
Degree: Bachelor of Arts
Minimum Hours for Major: 42
Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/film_667.pdf

Admission Requirements
Students wishing to enter the major in Film initially are admitted as majors Seeking Admission (reference 667P). Prospective majors may take no more than 12 hours in the major before admission. Students must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.5;
3. Completion of ENG 100 with a grade of "C" or higher and 9 additional hours in general education;
4. Completion of the following courses with a grade of "C" or higher: FILM 100, FILM 201, FILM 202.

Students seeking admission to the film major may choose from the following courses: FILM 100, FILM 155, FILM 201, FILM 202, FILM 250, BCOM 366, and FILM 369. Students not meeting the above admission requirements will not be admitted to the Film major and cannot register for any additional courses in the major.

Film Requirements: The major in Film provides undergraduates a strong foundation in both film production and film studies. This combination allows students to gain the practical skills to succeed on a film set in both "below the line" and "above the line" roles, to experience the mechanics of film production in industry and independent settings, and to develop facility in critical and analytical thinking through the study of global film culture, history and aesthetics.

The major in Film requires 42 semester hours. No course with a grade of "D" or below may be counted toward this major or fulfill prerequisite requirements for any major in the School of Journalism & Broadcasting. One-half of the hours in the Film major must be at the 300 or 400 level. Students must take a minimum of 72 semester hours in courses outside of the School of Journalism & Broadcasting including the general education requirements.

In addition to meeting institutional requirements for graduation, the Film major must have a minor or second major that is approved by the major faculty advisor and that is outside of both the school of Journalism & Broadcasting and the Film Studies minor. Students may not select a minor from those offered within the School, unless taken as a second minor.

The major requires the following courses: FILM 100, FILM 155, FILM 201, FILM 202, FILM 250, FILM 282, FILM 369, FILM 382, FILM 486, and BCOM 366. Students must take five of the following courses, including at least two in the Film Studies category and two in the Film Production category. Other courses may be approved as a restricted elective upon approval of the faculty advisor in the major and the program coordinator.

Film Studies: FILM 399, FILM 469, ENG 309, ENG 365, ENG 366/FILM 366, ENG 465/FILM 465, ENG 466/FILM 466, BCOM 481, PS 303, ANTH 448, GERM 437, FREN 450, SPAN 490, SUS 295.

Film Production: FILM 376, FILM 377, FILM 378, FILM 379, FILM 450, FILM 482, BCOM 378, BCOM 380, BCOM 480, PJ 231, PJ 330, PERF 101, THEA 303/BCOM 303.

Major in Journalism

Program Coordinator: M. McKerrel

Reference Number: 736P (seeking admission)
736 (officially admitted)
Minimum Hours for Degree: 120
Degree: Bachelor of Arts
Minimum Hours for Major: 42
Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/journalism_736.pdf

Admission Requirements
Students wishing to enter the major in Journalism initially are admitted as majors Seeking Admission (reference 736P). Prospective majors may take no more than 15 hours in the major before admission. Students must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.5;
3. Completion of ENG 100 with a grade of "C" or higher and 9 additional hours in general education;
4. Completion of the following courses with a grade of "C" or higher: SJB 101, SJB 102, and JOUR 202.

Students not meeting the above admission requirements will not be admitted to the Journalism major and cannot register for any additional courses in the major.

Journalism Requirements
The major in Journalism requires 42 semester hours. No course with a grade of "D" or below may be counted toward the major or fulfill prerequisite requirements for any major in the School. One-half of the hours in the major must be at the 300- or 400-level. Students must take a minimum of 72 semester hours in courses outside of the School of Journalism & Broadcasting unit including the general education requirements

In addition to meeting institutional requirements for graduation, the Journalism major must have a minor or second major outside of the School of Journalism & Broadcasting and Film Studies that is approved by the major faculty advisor. Students may not select a minor in Film Studies, or those offered within the School, unless taken as a second minor.

The world of journalism is changing. However, the need for excellent journalists is not. The Journalism major grounds its curriculum in the skills that all employers within the news media and professional communications want: strong writing and editing skills; excellent storytelling skills; the ability to find and process complex information, and share it in a way that helps others understand it.

The core of the curriculum remains reporting, writing, and editing for print and the Web. That core is joined by a range of classes aimed at developing a foundation in multimedia storytelling: digital photojournalism, audio-visual gathering, and editing; and Web site development and content delivery. Ethical and professional standards, First Amendment principles, and media law concepts are incorporated throughout the curriculum to complete the program.

Specific objectives of the Journalism program:

1. To prepare students for professional careers in journalism and media information;
2. To instill in students a high degree of professionalism, which consists principally of practical competence and ethical understanding;
3. To enhance the student's understanding of the role of the press in a democratic society.

Required courses (33 hours) for a major in Journalism are: SJB 101, SJB 102, AD 210, JOUR 202, JOUR 301, JOUR 302, JOUR 323, JOUR 325, PJ 131, PJ 261, BCOM 264. Students are required to take a diversity elective course (3 hours): SJB 310. ANTH 448, COMM 463, CRIM 446, FLK 330, SOCL 355, SOCL 362, SOCL 375, SPAN 345 or a diversity class approved by an academic instructor. Students must select a capstone course from JOUR 426 or SJB 402. An elective should be selected from: AD 343, SJB 330, SJB 421, JOUR 422, JOUR 467, JOUR 481, JOUR 491, BCOM 325, ENG 311, ENG 402, ENG 403, and FLK 373.

Major in Photojournalism

Program Coordinator: J. Kenney

Reference Number: 750P (seeking admission)
750 (officially admitted)
Minimum Hours for Major: 45

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/photojournalism_750.pdf

Admission Requirements
Students wishing to enter the major in Photojournalism initially are admitted as majors Seeking Admission (reference 750P). Prospective majors may take no more than 15 hours in the major before admission. Students must meet the following requirements before they can be admitted:

1. Completion of a minimum of 24 hours of coursework applicable to a baccalaureate degree;
2. A minimum overall grade point average of 2.5;
3. Completion of ENG 100 with a grade of "C" or higher and 9 additional hours in general education;
4. Completion of the following courses with a grade of "C" or higher: SJB 101, SJB 102, PJ 231, and PH 233. Students not meeting the above admission requirements will not be admitted to the major in Photojournalism and cannot register for any additional courses in the major without special permission.

Students not meeting the above admission requirements will not be admitted to the Photojournalism major and cannot register for any additional courses in the major.

Photojournalism Requirements
The major in Photojournalism requires 45 semester hours. No course with a grade of "D" or below may be counted toward the major or fulfill prerequisite requirements for any major in the School. One-half of the hours in the major must be at the 300- or 400-level. Students must take a minimum of 72 semester hours in courses outside of the School of Journalism & Broadcasting including the general education requirements.

In addition to meeting the institutional requirements for graduation, the Photojournalism major must have a minor or second major outside of the School of Journalism & Broadcasting and Film Studies that is approved by the major faculty advisor. Students may not select a minor in film studies, or those offered within the School, unless taken as a second minor.

With a tradition of highly successful graduates, state-of-the-art facilities, and award-winning faculty, WKU's Photojournalism program is regarded as one of the nation's finest. The program is an integral component of the journalism program, and has contributed greatly to the high quality of the University student publication. Between 2012 and 2018, WKU has won the Hearst Journalism Awards Intercollegiate Photojournalism Championships 5 times and the Multimedia Championships 7 times. WKU School of Journalism & Broadcasting placed first in the 2018 Hearst Journalism Awards – continuing a multi-decade tradition of ranking among one of the top schools nationally.

The Photojournalism program emphasizes documentary photography, with a curriculum designed to prepare students to produce content-driven images for paper and electronic publications.

Specific objectives of the Photojournalism program:

1. To develop the artistic, technical and personal qualities of those who pursue a professional career in photojournalism and multimedia;
2. To develop a background for understanding the role of photojournalism in shaping and reflecting contemporary society;
3. To provide instruction in photographic theory, principles, ethics and practice for the student in any area of scholarly pursuit where such knowledge is essential or desirable in improving his or her understanding and abilities;
4. To provide a conceptual grounding in journalistic principles that will encourage advancement of the photojournalist in the profession.

Required courses (36 hours) in Photojournalism are SJB 101, SJB 102, JOUR 202, JOUR 302, PJ 231, PJ 233, PJ 330, PJ 302, PJ 333, PJ 334, PJ 433, PJ 436, and either JOUR 301 or BCOM 301. Students are required to take a diversity elective course (3 hours): SJB 310. ANTH 448, COMM 463, CRIM 446, FLK 330, SOCL 355, SOCL 362, SOCL 375, SPAN 345 or a diversity class approved by an academic instructor. In addition, students should select 6 hours of restricted electives from: FILM 376, FILM 377, FOUR 323, JOUR 325, PJ 336, PJ 390, PJ 432, PJ 439, or SJB 402.

Minor in Broadcasting

Program Coordinator: B. Pfranger

Reference Number: 330
Minimum Hours for Minor: 18

The minor in Broadcasting requires a minimum of 18 semester hours. The following courses are required: BCOM 201, BCOM 261 or BCOM 266, BCOM 301 and BCOM 325. The remaining courses must be chosen in consultation with an assigned faculty advisor. One-half the hours in the minor must be at the 300- or 400-level.

Minor in Journalism Writing

Program Coordinator: M. McKerrel

Reference Number: 419
Minimum Hours for Minor: 21

The minor in Journalism Writing requires a minimum of 21 hours. Students pursing the minor can gain valuable knowledge and skills in professional media writing and journalistic storytelling. Required courses include: SJB 101, JOUR 202, JOUR 301, JOUR 302, and JOUR 323. The remaining six hours, chosen in consultation with an assigned faculty advisor, may be selected from the following restricted electives; however, one selected course must have a JOUR prefix: JOUR 325, JOUR 426, JOUR 428, JOUR 467, JOUR 481, JOUR 495*ENG 311, ENG 402, ENG 403, FLK 373, SJB 310, BCOM 325. Half of the hours in the minor must be at the 300- or 400- level. (*JOUR 495 requires the program coordinator's permission.) Note: The prerequisite for JOUR 301 includes PS 110, which may be applied toward Colonnade requirements.

Minor in Photojournalism

Program Coordinator: J. Kenney

Reference Number: 433
Minimum Hours for Certificate: 21

The minor in Photojournalism will enable students to obtain technical and aesthetic skills in visual communication. Emphasis will be placed on mastering the functions of the camera; learning software pertaining to digital image management, image processing, and design; using documentary photographs to tell stories; developing writing skills in journalistic form; surveying the historical aspects of photography; and discussion the ethical implications of the visual medium. There are two electives in the minor that will enable students to further apply the foundational principles established in the five core courses.

The following 15 hours are required for the minor: PJ 231, PJ 233, PJ 333, PJ 336, and PJ 390. In addition, students must take six hours of restricted electives chosen from: PJ 334, PJ 439, SJB 330 or School of Journalism & Broadcasting course approved by Photojournalism Sequence Coordinator.

iMedia Certificate

Reference Number: 1702
Minimum Hours for Certificate: 21

The iMedia certificate requires 21 semester hours and prepares School of Journalism & Broadcasting students for the future of news reporting, digital/multimedia story creation, and web distribution. The certificate responds to current and projected trends in newsgathering and distribution techniques where news organization are working collaboratively to deliver news and/or information when, where, and how the consumer dictates.

Certification participants will be chosen based on SJ&B minimum 3.0 G.P.A. in the major, overall WKU G.P.A. of 2.5, an interview and presentation of a portfolio, and a written letter of intent to complete the program. Students must be admitted to one of seven majors within the School of Journalism & Broadcasting to apply for participation.

The certificate requires two core courses: SJB 102 or equivalent course and SJB 495; and at least one course from each restricted elective category from the following list:

Restricted elective categories
Advertising (3-6 hours): AD 341, AD 348
Broadcasting (3 hours): BCOM 264, BCOM 261, BCOM 366, BCOM 368
Journalism (3 hours): JOUR 202, JOUR 302, JOUR 323
Photojournalism (3 hours): PJ 131, PJ 233, PJ 261
Public Relations (3 hours - 6 hours): PR 255, PR 358, PR 356

The iMedia certificate is limited to students enrolled in a major within the School of Journalism & Broadcasting. Students interested in pursuing the iMedia certificate should first speak with their advisor. A written application and a portfolio review are required for consideration.

Department of Modern Languages

Dr. Laura McGee, Head
Email: Laura.McGee@wku.edu

Ivan Wilson Center for Fine Arts, Office 251
Phone: (270) 745-2401; Fax: (270) 745-6859
Email: modern.languages@wku.edu
Website: www.wku.edu/modernlanguages

Professors: K. Egloff, L. McGee, I. Pertusa, M. Stewart
Associate Professors: D. DiMeo, S. Lenk, K. Peng, F. Sunkin
Assistant Professors:Y. Chang, S. Harrington, C. Wu, H. Zheng
Instructor II: E. Cuisinier, S. Davis, T. Straubel,
Instructor I: L. Guerwane, L. Huang, Y. Liu, Y. Vandermolen

Through coursework, experience abroad, community outreach activities, and other cultural encounters, the Department of Modern Languages cultivates communicative skills and cultural awareness that prepare students at Western Kentucky University to be more knowledgeable and sensitive citizens of the global community. The department's goals are to deliver high-quality language instruction based on nationally-recognized standards, to contribute actively to cross-disciplinary international initiatives on campus, and to graduate majors and minors whose language skills provide enhanced opportunities for careers at the regional, national, and international levels, and who are competitive for graduate study, should they choose that route.

Language students may join any one of the department's language clubs and may also be selected for membership in chapters of national language honor societies. They may attend international film screenings or they may watch international films, interact with exchange students, take part in community or regional outreach activities, and enjoy the benefits of multi-media enhanced instruction.

The department strongly encourages students to take advantage of study abroad opportunities. With advance approval of the department, students can earn credit toward majors and minors through participation in WKU's own direct exchanges, the programs of the Kentucky Institute for International Studies or other accredited programs.

When planning programs of study in this department, students should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the Department Head.

Teacher Certification Requirements for Arabic, Chinese, French, German, and Spanish Majors:

Students interested in teacher certification in Arabic, Chinese, French, German, or Spanish should meet with a Modern Languages Academic Advisor as early in their academic career as possible for information on current program requirements. World Language teachers in Kentucky may be eligible for interest forgiveness on student loans.

Professional Education Coursework: Required for Certification in Arabic, Chinese, French, German, & Spanish are listed as follows: EDU 250, LTCY 421, SPED 330, PSY 310, SEC 351, SEC 453, MNLG 410, MLNG 474, EDU 489, and SEC 490**.** For a total of 37 of professional education hours.

All students seeking teacher certification must take the official Oral Proficiency Interview (OPI) given by the American Council on the Teaching of Foreign Languages (ACTFL).

WKU Language Requirement

Colonnade Program: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement. Complete information is provided here: www.wku.edu/academicaffairs/language_resolution_implementation.php**.**

Credit for students intending to major or minor in a language: Students who have good language skills and those who plan to major or minor in a language should take measures to gain credit for their previous knowledge. For current information on verified credit, AP credit, or CLEP credit, go to the Modern Languages website at this address: www.wku.edu/modernlanguages and click on Placement.

Major in Arabic

Reference Number: 609
Minimum Hours for Major: 36-73
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path:
Arabic Language and Culture Concentration: http://wku.edu/degreepaths/18-19/documents/pcal/arabic_lang_culture_609.pdf
Arabic for Business Concentration: http://wku.edu/degreepaths/18-19/documents/pcal/arabic_business_609.pdf
Arabic for International Service Concentration: http://wku.edu/degreepaths/18-19/documents/pcal/arabic_intl_service_609.pdf
Arabic for Journalism Concentration: http://wku.edu/degreepaths/18-19/documents/pcal/arabic_journalism_609.pdf
With Teacher Certification: http://wku.edu/degreepaths/18-19/documents/pcal/arabic_teacher_cert_609.pdf

The proficiency-oriented Arabic major (reference # 609) is built upon student-centered curriculum and standards-based assessments. It provides WKU undergraduates with extensive language training and in-depth study of Arab culture and society, which prepare them to use Arabic proficiently in their professional endeavors. Some of the required coursework may be accomplished through approved methods for demonstration of previous knowledge. Study abroad is strongly recommended. A minor or second major is required for the Arabic Language and Culture concentration. Students must earn a "C" or better in all major courses.

Arabic Language and Culture Concentration:
Required core courses: (18 hours)

- ARBC 102 (3 hours) Elementary Arabic II
- ARBC 201, ARBC 202 (6 hours) Intermediate Arabic I & II
- ARBC 301, ARBC 302 (6 hours) Advanced Arabic I & II
- ARBC 321 (3 hours) Colloquial Arabic

Elective Courses (18 hours): At least six other ARBC courses at the 300- or 400- level for a total (including the core courses) of 36 or more credit hours.

Arabic for Business Concentration (39 hours):
Required core courses:

- ARBC 102 (3 hours) Elementary Arabic II
- ARBC 201, ARBC 202 (6 hours) Intermediate Arabic I & II
- ARBC 301, ARBC 302 (6 hours) Advanced Arabic I & II
- ARBC 321 (3 hours) Colloquial Arabic
- ARBC 418 (3 hours) Business Arabic
- ARBC 438 (3 hours) Topics in Arabic Media
- MGT 210 (3 hours) Organization and Management
- MGT 303 (3 hours) International Business
- ECON 202 (3 hours) Principles of Economics

Electives (6 hours): Any 300- or 400- level ARBC courses.

Arabic for International Service Concentration (39 hours):
Required core courses:

- ARBC 102 (3 hours) Elementary Arabic II
- ARBC 201, ARBC 202 (6 hours) Intermediate Arabic I & II
- ARBC 301, ARBC 302 (6 hours) Advanced Arabic I & II
- ARBC 321 (3 hours) Colloquial Arabic
- ARBC 357 (3 hours) Arabic for International Service
- ARBC 437 (3 hours) Advanced Media Arabic
- PS 365 (3 hours) Politics of the Middle East
- PS 250 (3 hours) International Politics
- RELS 306 (3 hours) Islam or HIST 462 (3 hours) History of the Middle East

Electives (6 hours): Any 300- or 400- level ARBC course.

Arabic for Journalism Concentration (39 hours):
Required core courses (33 hours):

- ARBC 102 (3 hours) Elementary Arabic II
- ARBC 201, ARBC 202 (6 hours) Intermediate Arabic I & II
- ARBC 301, ARBC 302 (6 hours) Advanced Arabic I & II
- ARBC 321 (3 hours) Colloquial Arabic
- ARBC 437 (3 hours) Advanced Media Arabic
- ARBC 438 (3 hours) Topics in the Media Arabic
- SJB 102 (3 hours) Media Content, Collaboration and Community
- JOUR 202 (3 hours) Introduction to News Writing
- JOUR 323 (3 hours) Multiplatform News Presentation

Electives (6 hours): Any 300- or 400- level ARBC courses.

Major in Arabic with Teacher Certification:
Required core courses (18 hours):

- ARBC102 (or equivalent)
- ARBC 201, ARBC 202
- ARBC 301, ARBC 302 Advanced Arabic I & II
- ARBC 437 Advanced Media Arabic

Elective Courses (18 hours): At least six other ARBC courses at the 300- or 400- level for a total (including the core courses) of 36 or more credit hours. Students may include among the six courses up to six credit hours of 300- or 400- level courses delivered in English but related to Arabic studies (HIST 462, GEOG 467, PS 365, RELS 306, RELS 311, RELS 320, or other courses with permission of the program advisor).

Total required hours in Arabic: 36

Major in Chinese

Reference Number: 624
Minimum Hours for Major: 36-73
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/chinese_624.pdf
With Teacher Certification: http://wku.edu/degreepaths/18-19/documents/pcal/chinese_teacher_cert_624.pdf

The proficiency-oriented Chinese major (reference # 624) is built upon student-centered curriculum and standards-based assessments. It provides WKU undergraduates with extensive language training and in-depth study of Chinese culture and society, which prepare them to use Chinese proficiency in their professional endeavors. Thirty-six credit hours are required in this major. Some of the required course work may be accomplished through approved methods for demonstration of previous knowledge or courses taken with the Chinese Flagship Program (CHNF). Chinese Flagship students must have been admitted to or be in good standing in the Mahurin Honors College. Study abroad is strongly recommended. A minor or second major is required for the non-teacher certification concentration. No course with a grade of “D” or below may be counted toward the major.

Required core courses (21 hours):

- CHIN 102 (3 hours) Elementary Chinese II or CHNF 101 (4 hours) Intensive Elementary Chinese I
- CHIN 201 (3 hours) Intermediate Chinese I or CHNF 102 (4 hours) Intensive Elementary Chinese II
- CHIN 202 (3 hours) Intermediate Chinese II or CHNF 202 (4 hours) Intensive Intermediate Chinese I
- CHIN 301 (3 hours) Advanced Intermediate Chinese I or CHNF 201 (4 hours) Intensive Intermediate Chinese II
- CHIN 302 (3 hours) Advanced Intermediate Chinese I (required for students not taking CHNF courses)
- CHIN 401 (3 hours) Advanced Chinese I
- CHIN 402 (3 hours) Advanced Chinese II

Elective courses (14-15 hours): At least four courses at the 300- or 400-level for a total (including the core courses) of 36 or more credit hours. Students may include among the five courses up to three credit hours of 200-level credit beyond CHIN 201/CHIN 202 (only if taught in Chinese and taken in sequence) and six credit hours of 300- or 400-level courses delivered in English but related to Chinese studies (e.g., courses in Chinese history, philosophy, and/or religion), only after the student has completed 6 hours at 300-level with permission of program advisor. Electives may be chosen from the following: Chinese Language Courses −CHIN 200-level courses other than CHIN 201/CHIN 202 (3 hours maximum); CHIN or CHNF 300- or 400-level courses; Study Abroad − CHIN 306 (maximum of 6 hours); courses on Chinese Studies (delivered in English) − HIST 460, HIST 461, HIST 471, PS 366, RELS 308, RELS 317, RELS 318, or other courses with permission of program advisor (maximum of 6 hours).

Major in Chinese with Teacher Certification:
Required Core Courses (24 hours):

- CHIN 102 (3 hours) Elementary Chinese II or CHNF 101 (4 hours) Intensive Elementary Chinese I
- CHIN 201 (3 hours) Intermediate Chinese I or CHNF 102 (4 hours) Intensive Elementary Chinese II
- CHIN 202 (3 hours) Intermediate Chinese II or CHNF 202 (4 hours) Intensive Intermediate Chinese I
- CHIN 301 (3 hours) Advanced Intermediate Chinese I or CHNF 201 (4 hours) Intensive Intermediate Chinese II
- CHIN 302 (3 hours) Advanced Intermediate Chinese I (required for students not taking CHNF courses)
- CHIN 333 (3 hours) Chinese Culture and Civilization
- CHIN 401 (3 hours) Advanced Chinese I
- CHIN 402 (3 hours) Advanced Chinese II

Elective courses (14-15 hours): At least four courses at the 300- or 400-level for a total (including the core courses) of 36 or more credit hours. Students may include among the five courses up to three credit hours of 200-level credit beyond CHIN 201/CHIN 202 (only if taught in Chinese and taken in sequence) and six credit hours of 300- or 400-level courses delivered in English but related to Chinese studies (e.g., courses in Chinese history, philosophy, and/or religion), only after the student has completed 6 hours at 300-level with permission of program advisor.

Electives may be chosen from the following: Chinese Language Courses − CHIN 200-level courses other than CHIN 201/CHIN 202 (3 hours maximum); CHIN or CHNF 300- or 400-level courses; Study Abroad − CHIN 306 (maximum of 6 hours); courses on Chinese Studies (delivered in English) − HIST 460, HIST 461, HIST 471, PS 366, RELS 308, RELS 317, RELS 318, or other courses with permission of program advisor (maximum of 6 hours).

The Chinese Language Flagship Program
Sponsored by the National Security and Education Program, the Chinese Language Flagship Program seeks to bring scholars to the Superior level of Chinese proficiency during their undergraduate career.
Chinese Language Flagship scholars take intensive Flagship Chinese courses every semester in addition to their major or minor coursework, working towards a level of professional proficiency in the language. Scholars also participate in multiple intensive Chinese Language opportunities abroad, including a prestigious overseas Capstone Year in China if admitted.
Scholars can major in almost any major at WKU. Those who complete all program requirement and test at the Superior level will receive the prestigious Flagship Certification by the U.S. government. Flagship Certified Professionals are highly motivated graduates equipped with the language proficiency and intercultural insights for careers in federal government, global business, nongovernmental organizations, and other fields. ROTC cadets who remain in good standing both in the ROTC and Chinese Language Flagship programs are eligible for federal government support for multiple study abroad programs.

Major in French

Reference Number: 665
Minimum Hours for Major: 36-73
Minimum Hours for Degree: 120
Degree: Bachelor of Art

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/french_665.pdf
With Teacher Certification: http://wku.edu/degreepaths/18-19/documents/pcal/french_teacher_cert_665.pdf

The French major (reference # 665) leads to a Bachelor of Arts degree and requires a minimum of 36 credit hours. A minor is required, unless the student declares the teacher certification concentration. Some of the required coursework may be accomplished through CLEP or AP credit. Study abroad is strongly recommended. A minor or second major is required for the non-teacher certification concentration. No course with a grade of "D" or below may be counted toward the major.

Required core courses (21 hours):

- FREN 102, FREN 201, FREN 202
- FREN 320 French Grammar and Composition or FREN 420 Advanced French Composition and Stylistics
- FREN 321 French Conversation or FREN 421 Advanced French Conversation
- FREN 323 French Civilization and Culture
- Upper-division literature course

Elective courses: At least five courses at the 300- or 400-level for a total (including the core courses) of 36 or more credit hours. May include among the five courses up to three credit hours of 200- level credit beyond FREN 201/FREN 202 (only if taught in French and taken in sequence).

Major in French with Teacher Certification
Required core courses (21 hours):

- FREN 102 (or equivalent)
- FREN 201, FREN 202
- FREN 320 French Grammar and Composition or FREN 420 Advanced French Composition and Stylistics
- FREN 323 French Civilization and Culture
- FREN 421 Advanced French Conversation
- Upper-division literature course

Elective courses (15 hours): Five French courses at the 300-or 400- level for a total (including the required courses) of 36 or more credit hours.

Total required hours in French: 36

Major in German

Reference Number: 683
Minimum Hours for Major: 36-73
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/german_683.pdf
With Teacher Certification: http://wku.edu/degreepaths/18-19/documents/pcal/german_teacher_cert_683.pdf

The German major (reference # 683) leads to a Bachelor of Arts degree and requires a minimum of 36 credit hours. A minor is required, unless the student declares the teacher certification concentration. Some of the required coursework may be accomplished through CLEP or AP credit. Study abroad is strongly recommended. A minor or second major is required for the non-teacher certification concentration. No course with a grade of "D" or below may be counted toward the major.

Required core courses (15 hours): GERM 102, GERM 201, GERM 202, GERM 330: German Composition and Conversation, and GERM 335: Contemporary Culture and Civilization.

Elective courses (21 hours): At least seven courses at the 300- or 400-level for a total (including the core courses) of 36 or more credit hours. May include among the seven courses up to three credit hours of 200- level credit beyond 201/202 (only if taught in German and taken in sequence).

Major in German with Teacher Certification
Required core courses (21 hours):

- GERM 102 (or equivalent)
- GERM 201, GERM 202
- GERM 314 Introduction to German Literature
- GERM 330 German Composition and Conversation
- GERM 335 Contemporary Culture and Civilization
- GERM 430 Advanced German Stylistics

Elective courses (15 hours): Five German courses at the 300- or 400-level for a total (including the core courses) of 36 or more credit hours.

Total required hours in German: 36

Major in Spanish

Reference Number: 778
Minimum Hours for Major: 36-73
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/spanish_778.pdf
With Teacher Certification: http://wku.edu/degreepaths/18-19/documents/pcal/spanish_teacher_cert_778.pdf

The Spanish major (reference # 778) leads to a Bachelor of Arts degree and requires a minimum of 36 credit hours. A minor is required, unless the student declares the teacher certification concentration. Some of the required coursework may be accomplished through CLEP or AP credit. Study abroad is strongly recommended. A minor or second major is required for the non-teacher certification concentration. No course with a grade of "D" or below may be counted toward this major.

Required core courses (21 hours):

- SPAN 102 (or equivalent)
- SPAN 201, SPAN 202
- SPAN 370 Spanish Conversation
- SPAN 371 Spanish Composition & Grammar
- SPAN 372 Latin American Civilization and Culture or SPAN 373 Spanish Civilization and Culture
- SPAN 374 Literature and Culture of Spain or SPAN 376 Lit & Culture of Latin America

Elective courses (15 hours): Five Spanish courses at the 300- or 400-level for a total (including the core courses) of 36 or more credit hours.

Major in Spanish with Teacher Certification
Required core courses (24 hours):

- SPAN 102 (or equivalent)
- SPAN 201 and SPAN 202
- SPAN 370 Spanish Conversation
- SPAN 371 Spanish Composition and Grammar
- SPAN 372 Latin American Civilization and Culture or SPAN 373 Spanish Civilization and Culture
- SPAN 374 Literature and Culture of Spain or SPAN 376 Literature and Culture of Latin America
- SPAN 470 Advanced Oral Spanish

Elective courses (12 hours): Four Spanish courses at the 300- or 400-level for a total (including the required courses) of 36 or more credit hours.

Total required hours in Spanish: 36

Minor in Arabic

Reference Number: 315
Minimum Hours for Minor: 30

The proficiency-oriented Arabic minor is built upon student-centered curriculum and standards-based assessments. It provides WKU undergraduates with extensive language training and in-depth study of Arab culture and society, which prepare them to use Arabic proficiently in their professional endeavors. The minor in Arabic requires a minimum of 30 credit hours. Some of the required coursework may be accomplished through approved methods for demonstration of previous knowledge. Study abroad is recommended. Students must earn a "C" or better in all courses counted toward the minor.

Required core courses: (15 hours):

- ARBC 102 (3 hours) Elementary Arabic II
- ARBC 201, ARBC 202 (6 hours) Intermediate Arabic I & II
- ARBC 301, ARBC 302 (6 hours) Advanced Arabic I & II

Electives (15 hours) At least five other ARBC courses at the 300- or 400-level for a total (including the core courses) of 30 or more credit hours. Students may include among the five courses up to six credit hours of 300- or 400-level courses delivered in English but related to Arabic studies (HIST 462, GEOG 467, PS 365, RELS 306, RELS 311, RELS 320 or other courses with permission of the program advisor).

Minor in Chinese

Reference Number: 337
Minimum Hours for Minor: 30

The minor in Chinese requires 30 credit hours. Some of the required coursework may be accomplished through approved methods for demonstration of previous knowledge or courses taken with the Chinese Flagship Program (CHNF). Chinese Flagship students must have been admitted to or be in good standing in the Mahurin Honors College. Study abroad is recommended. No course with a grade of "D" or below may be counted toward the minor.

Required core courses (18-19 hours):

- CHIN 102 (3 hours) Elementary Chinese II or CHNF 101 (4 hours) Intensive Elementary Chinese I
- CHIN 201 (3 hours) Intermediate Chinese I or CHNF 102 (4 hours) Intensive Elementary Chinese II
- CHIN 202 (3 hours) Intermediate Chinese II or CHNF 201 (4 hours) Intensive Intermediate Chinese I
- CHIN 301 (3 hours) Advanced Intermediate Chinese I or CHNF 202 (4 hours) Intensive Intermediate Chinese II
- CHIN 302 (3 hours) Advanced Intermediate Chinese I (required for students not taking CHNF course)
- CHIN 401 (3 hours) Advanced Chinese I

Elective Courses (11-12 hours): At least three courses must be taken at the 300- or 400-level for a total (including the core courses) of 30 or more credit hours. These courses may include among the four courses up to three credit hours of 200-level credit beyond CHIN 201/CHIN 202 (only if taught in Chinese and taken in sequence), six credit hours of study abroad, and three credit hours of 300- or 400-level courses delivered in English but related to Chinese studies (e.g. courses in Chinese history, philosophy, and/or religion) with permission of program advisor.

Electives should be selected from the following categories: Chinese language courses – CHIN 200-level courses other than 201/202 (3 hours maximum); Chinese (CHIN) or Chinese Flagship (CHNF) courses at the 300- or 400-level; Study Abroad – CHIN 306 (6 hours maximum); courses on Chinese Studies – HIST 460, HIST 461, HIST 471, PS 366, RELS 308, RELS 317, RELS 318, and other courses chosen with permission of advisor (3 hours maximum).

Minor in French

Reference Number: 365
Minimum Hours for Minor: 30

The minor in French requires a minimum of 30 semester hours. The following courses must be completed (or equivalent CLEP or AP credit earned) in order to complete requirements for the undergraduate minor in French. No course with a grade of "D" or below may be counted toward this minor.

Required core courses (18 hours):

- FREN 102
- FREN 201, FREN 202
- FREN 320 French Grammar and Composition or FREN 420 Advanced French Composition and Stylistics
- FREN 321 French Conversation or FREN 421 Advanced French Conversation
- FREN 323 French Civilization and Culture

Elective courses (12 hours): At least four courses at the 300- or 400-level for a total (including the core courses) of 30 or more credit hours. May include among the four courses up to three credit hours of 200- level credit beyond FREN 201/FREN 202 (only if taught in French and taken in sequence).

Minor in German

Reference Number: 380
Minimum Hours for Minor: 30

The minor in German requires a minimum of 30 semester courses. The following courses must be completed (or equivalent CLEP or AP credit earned) in order to complete requirements for the undergraduate minor in German. No course with a grade of "D" or below may be counted toward this minor.

Required core courses (15 hours): GERM 102, GERM 201, GERM 202, GERM 330: German Composition and Conversation, and GERM 335: Contemporary Culture and Civilization.

Elective courses (15 hours): At least five courses at the 300- or 400-level for a total (including the core courses) of 30 or more credit hours. May include among the seven courses up to three credit hours of 200- level credit beyond GERM 201/GERM 202 (only if taught in German and taken in sequence).

Minor in Spanish

Reference Number: 464
Minimum Hours for Minor: 30

The minor in Spanish requires a minimum of 30 semester courses. The following courses must be completed (or equivalent CLEP or AP credit earned) in order to complete requirements for the undergraduate minor in Spanish. No course with a grade of "D" or below may be counted toward this minor.

Required core courses (21 hours):

- SPAN 102 (or equivalent)
- SPAN 201 and SPAN 202
- SPAN 370 Spanish Conversation
- SPAN 371 Spanish Composition and Grammar
- SPAN 372 Latin American Civilization and Culture or SPAN 373 Spanish Civilization and Culture
- SPAN 374 Literature and Culture of Spain or SPAN 376 Literature and Culture of Latin America

Elective courses (9 hours): At least three courses at the 300- or 400-level for a total (including the core courses) of 30 or more credit hours. May include among the three courses up to three credit hours of 200- level credit beyond SPAN 201/SPAN 202 (only if taught in Spanish and taken in sequence).

Graduate Programs − Inquiries about the master's degrees in teaching foreign languages should be addressed to the Head of the Department of Modern Languages (270-745-2401, modern.languages@wku.edu). Information is also available in The Graduate School's website at www.wku.edu/graduate.

International Study Opportunities − WKU students may take part in faculty-led study abroad programs or enroll for short-term, summer, quarter, semester or year abroad programs at study centers abroad and have that coursework transferred back to WKU and credited to their Modern Language major. See the international programs section of this publication or www.wku.edu/studyabroad for more information. The Department offers several scholarships and awards annually intended primarily to assist students who study abroad.

Department of Music

Dr. Scott Harris, Head
Email: Scott.Harris@wku.edu

Ivan Wilson Center for Fine Arts, Office 351
Phone: (270) 745-3751; Fax: (270) 745-6855
Email: music@wku.edu
Website: www.wku.edu/music

Professors: H. Álvarez, M. Berry, J. Cipolla, P. Hondorp, W. Pope, G. Schallert, B. Scott, M. Scott, D. Speer, R. Swanson, M. Wolinski
Associate Professors: J. Bright, C. Lin, S. Harris, L. Kelly
Assistant Professors: M. Herman, Z. Lopes, B. St. John, J. Stites, L. Whitman, C. Wilson
Professional-in-Residence: S. Berry
Instructor II: J. Martin

The Department of Music promotes the study and experience of music in its broadest sense: preparing artist teachers and performers, enhancing creativity and the human spirit, and enriching the quality of life on campus, in the region, and in our global community. Western Kentucky University has been a fully accredited member of the National Association of Schools of Music since 1948.

A large part of the department's mission is the preparation of music teachers and professional musicians. Students with broad musical interests may select a music major or minor within a diversified liberal arts program. Music degree programs provide for the development of basic musicianship through conceptual understanding of musical properties and their interrelationships, relevant opportunities for listening, performing, composing, and scholarship, and the acquisition of a repertory representative of various cultures and historical periods. Competencies in various areas and at varying levels appropriate to each program of music concentration are developed through a sequence of studies and assessments.

General University students may elect certain music courses through the Colonnade Program Requirements. All students from all disciplines may participate in various instrumental and choral ensembles.

Students wishing to pursue a music degree (including double majors) should have pre-college training in their principal or major performing instrument or voice and be able to read music fluently. Basic keyboard ability is helpful but not mandatory. Entering students must audition for admission to the music program to major or minor in music, including diagnostic examinations in theory rudiments (scales, keys, intervals, triads, general notation), music reading, and performance (principal instrument/voice). Deficiencies may be removed through remedial placement except in the case of auditions for the Bachelor of Music in Performance.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Pay particular attention to the subsections entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Some academic programs require additional scholastic regulations and standards not specified in the catalog. Students should contact their advisor for any recent requirement changes not reflected in this catalog. Information for prospective students about life in the Department of Music appears at www.wku.edu/music. The Department of Music offers majors and a minor as shown in the following sections.

Major in Music

Reference Number: 593
Minimum Hours for Major: 69-74
Minimum Hours for Degree: 120-135
Degree: Bachelor of Music

Sample Degree Path for Concentration: The Bachelor of Music degree has two concentrations: music education and performance.

Music Education Strings: www.wku.edu/degreepaths/18-19/documents/pcal/bm_music_ed_strings_593.pdf

Music Education Winds/Percussion: https://www.wku.edu/degreepaths/18-19/documents/pcal/bm_music_ed_winds_perc_593.pdf

Music Education Vocal: http://wku.edu/degreepaths/18-19/documents/pcal/bm_music_ed_vocal_593.pdf

*Music Education Integrated Strings:*http://www.wku.edu/degreepaths/18-19/documents/pcal/bm_music_ed_integr_trk_strings_593.pdf

Music Education Integrated Winds/Percussion: http://www.wku.edu/degreepaths/18-19/documents/pcal/bm_music_ed_integr_trk_winds_593.pdf

Music Education Integrated Vocal: http://www.wku.edu/degreepaths/18-19/documents/pcal/bm_music_ed_integr_trk_vocal_593.pdf

Performance Instrumental: http://wku.edu/degreepaths/18-19/documents/pcal/bm_perf_instr_593.pdf

Performance Vocal: http://wku.edu/degreepaths/18-19/documents/pcal/bm_perf_voice_593.pdf

The Bachelor of Music Concentration in Music Education offers tracks leading to three distinct teaching certifications: Integrated track (instrumental or vocal focus) which leads to certification for Teaching Music P-12 and requires 74 hours in music; Instrumental track which leads to certification for Teaching Instrumental Music P-12 and requires 69 hours in music; Vocal track that leads to certification for Teaching Vocal Music P-12 and requires 69 hours in music. All tracks require 25 hours in professional education and certain additional classes prescribed within the general education component. No minor or second major is required. No music course (MUS) with a grade below a "C" may be counted toward this major.

Requirements for the Music Education Concentration ALL Tracks (Integrated, Vocal & Instrumental):

Note: each track has additional requirements (see listings below)

- *Music Theory and Literature:* MUS 100, MUS 101, MUS 200, MUS 201, MUS 304, MUS 326, MUS 327
- *Applied Music:* 4 semesters (8 hours) of MUS 153; 3 semesters (6 hours) of MUS 353, MUS 160, MUS 161, MUS 260, MUS 261; students whose major/principal instrument is piano may substitute MUS 360 Accompanying in place of group piano (MUS 160, MUS 161, MUS 260, MUS 261).
- *Performance Attendance:* 7 semesters of MUS 155
- *Conducting:* MUS 317, MUS 318
- *Ensembles:* 7 semesters of appropriate major ensembles

- *Music Education:* MUS 214, MUS 312, MUS 412
- *Professional Education* (25 hours)*:* EDU 250, SPED 330, PSY 310, EDU 489, ELED 490, MGE 490/SEC 490, LTCY 421
- *Colonnade Program:* Must include PHYS 130 (Acoustics of Music and Speech) and additional requirements from Teacher Certification (see Teacher Education for current requirements)

Additional Requirements specific to the Music Education Concentration INTEGRATED Track:

- *Music Theory:* MUS 405 or MUS 407
- *Applied Music:* MUS 152 or MUS 162
- *Music Education:* MUS 215, MUS 315, MUS 316, MUS 319, MUS 415, MUS 416, and MUS 414 or MUS 417
- *Ensembles:* 2 "opposite area" ensembles (see Additional Baccalaureate Degree Requirements)

Additional Requirements specific to the Music Education Concentration VOCAL Track:

- *Music Theory:* MUS 405
- *Applied Music:* MUS 152, MUS 252, MUS 166, and MUS 360 (Accompanying)
- *Music Education:* MUS 414, MUS 415, and one guided elective techniques course chosen from MUS 215, MUS 315, MUS 316, MUS 319

Additional Requirements specific to the Music Education Concentration INSTRUMENTAL Track:

- *Music Theory:* MUS 407
- *Voice:* MUS 162
- *Music Education:* MUS 215, MUS 315, MUS 316, MUS 319, MUS 416, and MUS 338 or MUS 417

The performance concentration has both an instrumental and a vocal track and leads to the Bachelor of Music degree. The instrumental track requires 70 hours in music. The vocal track requires two additional courses in Diction − MUS 152 and MUS 252 − for 72 hours in music. No minor or second major is required. This program provides preparation for graduate study for performance and studio teaching careers. The performance concentration is available in voice, piano, organ, classical guitar, and many standard band and orchestral instruments. No music course with a grade below "C" may be counted toward this major.

Requirements for Bachelor of Music – Performance Concentration:

- *Music Theory and Literature:* MUS 100, MUS 101, MUS 200, MUS 201, MUS 304, MUS 326, MUS 327, MUS 430, 6 hours of electives in Theory/Composition (chosen from: MUS 203, MUS 206, MUS 405, MUS 407, or Applied Composition)
- *Applied Music:* 4 semesters (8 hours) of MUS 153; 2 semesters (6 hours) of MUS 357 (one to include junior recital and MUS 338); and 2 semesters (6 hours) of MUS 457 (one to include senior recital and MUS 338); MUS 160, MUS 161, MUS 260, MUS 261. Students whose major/principal instrument is piano may substitute MUS 360 Accompanying in place of group piano (MUS 160, MUS 161, MUS 260, MUS 261).
- *Performance Attendance:* 8 semesters of MUS 155
- *Pedagogy:* MUS 310
- *Vocal Track Only:* MUS 152, MUS 252
- *Conducting:* MUS 317
- *Ensembles:* 8 semesters of appropriate major ensembles and 2 semesters of elective ensembles
- *General Electives: 14 hours (chosen from university offerings not included in the major*)
- *Colonnade Program:* Must include PHYS 130 (Acoustics of Music and Speech) and fulfill the University's World Language Proficiency Requirement in one of the following languages: French, German, or Italian.

Major in Music (Liberal Arts)

Reference Number: 583
Minimum Hours for Major: 36 - 48
Minimum Hours for Degree:120
Degree: Bachelor of Arts

Sample Degree Path:
Music Extended Concentration (48 hours):
http://wku.edu/degreepaths/18-19/documents/pcal/liberalarts_mus_extended_583.pdf

Music General Concentration (36 hours):
http://wku.edu/degreepaths/18-19/documents/pcal/muse_mus_general_583.pdf

The major in Music (liberal arts) requires 36-48 hours of music (at least 18-24 of these must be at the upper-division 300- & 400-level) and leads to the Bachelor of Arts degree.

This program allows for a strong liberal arts education, a second major or a minor, along with a non-professional emphasis in music. No music course with a grade below a "C" may be counted toward this major.

Requirements for both concentrations:

- *Music Theory and Literature:* MUS 100, MUS 101, MUS 200, MUS 201, MUS 326, MUS 327
- *Conducting:* MUS 317
- *Ensembles:* 6 semesters of appropriate major ensembles
- *Performance Attendance:* 6 semesters of MUS 155
- *Colonnade Program:* Must include PHYS 130 (Acoustics of Music and Speech) and fulfill the University's World Language Proficiency Requirement.

Additional Requirements specific to the Music-Extended (48 hour) Program:

- *Applied Music:* 4 semesters (8 hours) in MUS 153; 2 semesters (4 hours) in MUS 353; MUS 160, MUS 161. Students whose major/principal instrument is piano may substitute MUS 360 Accompanying in place of group piano (MUS 160, MUS 161).
- *Music Electives:* 8 hours selected from Theory/Composition, History/Literature, ensembles, applied lessons, conducting, methods, or techniques.

Additional Requirements specific to the Music-General (36 hour) Program:

- *Applied Music:* 2 semesters (4 hours) in MUS 153; 4 semesters (4 hours) in MUS 350; MUS 160, MUS 161. Students whose major/principal instrument is piano may substitute MUS 360 Accompanying in place of group piano (MUS 160, MUS 161).
- *Second Major or Minor:* courses and credit hours as defined by that program
- *Electives:* as needed to meet the 120 hour degree minimum

Minor in Music

Reference Number: 423
Minimum Hours for Minor: 24

The minor in music requires a minimum of 24 semester hours (at least 12 of these must be at the upper-division 300- & 400-level).

Requirements:

- *Music Theory and Literature:* MUS 100, MUS 101, and MUS 120
- *Applied Music:* 3 hours (3 semesters)
- *Ensembles:* 3 hours (3 semesters of appropriate major ensembles)
- *Music Electives:* 9 hours selected from other music courses chosen in conjunction with the music minor advisor.

Additional Baccalaureate Degree Requirements for ALL Music Programs

1. **Applied Study:** Students pursuing the Bachelor of Music or Bachelor of Arts degree are required to enroll for private instruction in their principal or major instrument or voice and an appropriate major ensemble during each semester until requirements have been fulfilled.
2. **Recital Performance:** Students matriculating for the Bachelor of Music (music education concentration) must perform on Friday recital labs at least one time in each of their last four semesters of applied study. Music education majors may perform a portion of a junior and/or senior recital in lieu of the recital lab performance requirement if approved by the appropriate applied music jury in the semester prior to the anticipated performance date. Students matriculating for the Bachelor of Music (performance concentration) must perform recitals as required by that degree program.
3. **Piano Proficiency:** All students pursuing a Bachelor of Music degree are required to pass a piano proficiency examination or complete the fourth semester of group piano. Students pursuing a Bachelor of Arts in Music are required to pass a piano proficiency examination or complete the second semester of group piano.
4. **Ensemble Requirements:**

   Bachelor of Arts: Major in Music students are required to participate in one major ensemble appropriate to their applied principal area for a total of 6 semesters.

   Bachelor of Music: Performance concentration students are required to be in an appropriate major ensemble each semester for a total of 8 semesters and complete 2 semesters of elective ensembles.

Bachelor of Music: Music Education concentration students are required to participate in an appropriate major ensemble for a total of 7 semesters, excluding the semester in which student teaching is undertaken. Two semesters of ensembles in the opposite performance area are required for the integrated track.

Required Major Ensembles (linked to applied principal / major and degree program):

- Winds and Percussion: Concert Band, Symphonic Band, Wind Ensemble, Marching Band (Marching Band is required for wind/percussion Music Education majors in the Fall until the 2 semester requirement is met).
- Voice: Chorale, Choral Society, or University Singers
- Piano and Organ: Must declare and maintain Instrumental or Vocal status for the purpose of determining ensemble requirements
- Guitar: Guitar Ensemble (for AB and Music Performance degrees). Guitarists on the Music Education Track must declare and maintain Instrumental or Vocal status for the purpose of determining major ensemble requirements and fulfill 7 semesters in that major ensemble category.
- Strings: University Orchestra
- Opposite Area (vocal) ensembles are Chorale, Choral Society, University Singers, Men's Chorus, and Women's Chorus. At least one of the 2 required Opposite Area ensembles must be an SATB chorus.
- Opposite area (instrumental) ensembles are Orchestra, Marching Band, Wind Ensemble, Symphonic Band, and Concert Band.

5. **Concert and Recital Attendance:** Students majoring in music are required to attend 14 departmental and university-sponsored recitals and concerts each semester. Students register for MUS 155 to meet this requirement. The course is graded as pass/fail at the end of each semester.
6. **Semester Juries and Capstone:** Students majoring in music are required to perform for a jury panel at the end of each semester of Applied Study. A Capstone Project is required in the final semester of Applied Study (performance majors may elect to present their Capstone Project in the 7th semester).
7. **Revisions of Requirements, Policies, and Regulations:** The Department of Music updates the Student Handbook each year, and it can be found at www.wku.edu/music.

Graduate Study – The Department of Music offers a Master of Music degree with four concentrations: Music Education/Teacher Leader, Conducting/Teacher Leader, Conducting, and Pedagogy. Teacher certification renewal or MTNA national certification may be obtained through some of these options. Assistantships are available to outstanding graduate students. For further information, contact the Department of Music or see www.wku.edu/graduate.

Music Fees

Individual or small group instruction in applied music voice or musical instrument: Fall and Spring – $50 Per Course

Applied Music Instruction

Applied Music Secondary is intended for beginners, but does require an audition. Subsequent courses in the secondary track are available upon satisfactory completion of the immediately preceding course in that sequence.

Applied Music Principal is intended primarily for Bachelor of Music (music education) and Bachelor of Arts students (all of whom must have pre-college training in an instrument or voice) and is available by audition only.

Applied Music Major is for students seeking the Bachelor of Music (performance) degree and is available only to those who demonstrate advanced skills and high potential in an audition.

Students registering for one credit hour (secondary) receive one half-hour private lesson per week or the equivalent. Those registering for two to three credit hours (principal and major) receive one hour (or its equivalent) of private lesson per week. Placement in subsequent courses after the initial semester in both the principal and major tracks is made on the basis of faculty committee recommendations. Students are expected to practice a minimum of three hours per week for each credit hour received.

Instruction is offered in piano, organ, harpsichord, voice, violin, viola, harp, cello, double bass, guitar, flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, euphonium, trombone, tuba, percussion, composition, and jazz improvisation.

Applied music courses include: MUS 150, MUS 350 (Applied Music Secondary); MUS 153, MUS 353 (Applied Music Principal); MUS 357, MUS 457 (Applied Music Major). See the course descriptions for each course in the back of the catalog.

Department of Philosophy and Religion

Dr. Jeffrey Samuels, Interim Head
Email: Jeffrey.Samuels@wku.edu

Cherry Hall, Office 300
Phone: (270) 745-3136; Fax: (270) 745-5261
Website: www.wku.edu/philosophy-religion

Professors: I. Mukonyora, J. Samuels, M. Seidler, L. Snyder
Associate Professors: A. Anton, P. Fischer, E. Gish
Assistant Professors: S. Arjana, J. Barker
Transitional Retiree: J. Trafton
Professors Emeriti: A. Anderson, M. Curtis, J. Long, E. Schoen, D. Tuck, R. Veenker, A. Vos

Philosophy
The mission of the philosophy program is to use its faculty's collective expertise and experience in the various philosophical disciplines to teach philosophy with the intention of enabling its students to become effective, self-critical leaders able to empower others, to solve problems in diverse social and professional settings, and to experience satisfactions that can only come from living the examined life. To serve this mission, the philosophy program is committed to providing courses that:

- foster ethical understanding, analytical reading, logical thinking, and clear expression in our students;
- illuminate the assumptions, methods, and foundations of other disciplines for students who also major or minor in philosophy;
- acquaint students with paradigms and perspectives from past philosophies that provide recurring thought patterns whose strengths and weaknesses an autonomous individual should know;
- prepare students to deal with problems for which there are neither simple nor obvious solutions;
- equip students for graduate and professional study in fields such as law, government service, management, medicine, the ministry, and philosophy.

The philosophy program aids students to draw out from within themselves the assumptions and beliefs — often unconsciously but nonetheless deeply felt and held — governing their thoughts and actions, to express these inner convictions fully and clearly, and to subject them to critical analysis.

This is the birth into the examined life. It is also the first step toward awakening in students the spirit of critical inquiry, encouraging them to question readily accepted ideas, to probe for and to expose all assumptions, and to subject all claims and all issues—personal or public, local or international — to close examination. Philosophy lays bare fundamental questions and instructs students in the methods for grappling with them. As students develop, they see how ideas drive the phenomena of daily life. Philosophy calls students to the responsibility of putting all ideas to the test to know their value.

Religious Studies
The mission of the religious studies program is to promote the academic study of religion at Western Kentucky University and in the Commonwealth of Kentucky.

The academic study of religion provides the student with the methodological orientation necessary to comprehend the central beliefs, ethical practices, ritual systems, symbols, and social institutions of diverse religious traditions in their historic, contemporary and global contexts. Study in this field is multicultural and comparative, examining the life, ways, and moral worlds of societies past and present, our own as well as others. The student learns to probe for the structure, function and meaning of religion through those rites of passage, sacred narratives, faith communities, and codes of behavior that give meaning to human existence.

Asian Religions and Cultures
The continent of Asia is home to some of the most ancient and formative civilizations in history. All of the world's largest religious traditions have their origins on the continent, and Asian peoples have shaped and reshaped how humanity understands the world and itself for centuries. The Asian Religions and Cultures major facilitates the understanding of the continent and its peoples, allowing students to understand not only the Asian past but to put current issues and problems into a broader historical, religious, and cultural context.

The department offers a major and a minor in philosophy, religious studies, and Asian religions and cultures. These majors prepare students for graduate work in a variety of disciplines, including philosophy and religious studies. Majors and minors in these fields also contribute to preparation for a variety of professional and vocational fields. In each case, the number of semester hours required is modest in order to encourage second majors and minors. The requirements are flexible enough to permit students to select courses which develop and extend their interest.

Major in Philosophy

Reference Number: 745
Minimum Hours for Major: 31
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/philosophy_745.pdf

The major in philosophy requires a minimum of 31 semester hours and leads to a Bachelor of Arts degree. At least 16 hours must be in courses numbered 300 or above. A minor or second major is required.

The 32 hours must be distributed as follows:

I. Logic, Epistemology, and Metaphysics (6 hours): PHIL 214, PHIL 315, PHIL 330, PHIL 332, PHIL 334, PHIL 404, PHIL 415

II. History of Philosophy (6 hours): PHIL 331, PHIL 341, PHIL 342, PHIL 343, PHIL 345, PHIL 346, PHIL 347, PHIL 348, PHIL 406, PHIL 440, PHIL 450

III. Ethics and Values (6 hours, must take PHIL 350): PHIL 350, Ethical Theory; and take one of the following: PHIL 202, PHIL 207, PHIL 208, PHIL 211, PHIL 212, PHIL 305, PHIL 321, PHIL 322, PHIL 323, PHIL 324, PHIL 329, PHIL 333, PHIL 344, PHIL 406, PHIL 426, PHIL 427.

IV. Senior Seminar (1hours): PHIL 496

V. Electives (12 hours): Any of the previous philosophy courses or RELS 242, RELS 317, RELS 318.

The Philosophy program offers an honors option for superior students that provides opportunities for a challenging and intensive investigation of philosophical topics through Honors-enriched options available to qualified students in all classes. An Honors Thesis is required in addition to the 32 hours for the regular major. Full details of the program may be obtained by contacting the philosophy undergraduate advisor.

Major in Religious Studies

Reference Number: 769
Minimum Hours for Major: 31
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/religious_studies_769.pdf

The major in religious studies requires a minimum of 31 semester hours and leads to a Bachelor of Arts degree. At least four hours must be at the 400-level. A minor or second major is required. The thirty hours must be distributed as follows:

I. World Religions (3 hours): RELS 102: World Religions

II. Religious Traditions (9 hours): RELS 302: Buddhism, RELS 303: Hinduism, RELS 304: Judaism, RELS 305: Christianity, RELS 306: Islam, RELS 317: Confucianism, RELS 318: Daoism

III. Comparative Approaches to the Study of Religion (3 hours): RELS 103, RELS 200, RELS 222, RELS 242, RELS 320, RELS 333, RELS 341.

IV. Electives (15 hours; at least 9 hours must be in RELS courses): Electives may be selected from among the total offerings in RELS. Electives may also be selected from the following pre-approved list (or other courses approved by the Department Head) as well as from departmentally - approved study abroad courses. Students may count up to 1 year of a language sequence in Arabic, Chinese, Greek, Hebrew, Japanese, or Latin or other languages approved by the Department Head. ANTH 446, ART 316, ART 407, ENG 396, ENG 487, HIST 318, HIST 407, HIST 454, PHIL 343, PSYS 451, any RELS course, SOCL 322.

IV. Senior Seminar (1 hour)

Major in Asian Religions and Cultures

Reference Number: 615
Minimum Hours for Major: 31
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/asian_religions_cultures_615.pdf

The major in Asian Religions and Cultures requires 33 credit hours. At least 16 hours must be in courses numbered 300 or above. A minor or second major is required.

The following courses are required:

- Religion courses (9 credit hours) chosen from: RELS 103, RELS 302, RELS 303, RELS 306, RELS 317, RELS 318, RELS 320.
- Language (one year sequence) chosen from: ARBC 101/ARBC 102, CHIN 101/CHIN 102, CHNF 101/CHNF 102, JAPN 101/JAPN 102, RELS 156/RELS 157.
- History and Politics (6 credit hours) chosen from: HIST 110, HIST 370, HIST 460, HIST 461, HIST 462, HIST 471, HIST 472, PS 365, PS 366.
- Electives (three courses from the following list or any of the previous courses; 7-9 credit hours): ARBC 201, ARBC 202, ARC 401, ARC 498, ANTH 341, ART 407, CHIN 201, CHIN 202, CHNF 201, GEOG 465, GEOG 467, JAPN 201, JAPN 202, PERF 105, RELS 100, RELS 101, RELS 311.
- Senior Project (1 hour): ARC 499.

Note: students must take courses from at least four different departments. At least 17 hours must be at the 300-level or above.

Minor in Classical Studies

Reference Number: 334
Minimum Hours for Minor: 21

The minor in classical studies draws together courses on the history, language, literature, art, archaeology, and philosophy of the ancient Roman and Greek civilizations. This minor prepares students with interests in the Classical Roman or Greek worlds to understand these foundational western civilizations from multiple methodologies and knowledge bases. Students must take the following courses:

I. Philosophy (3 hours): PHIL 341 or PHIL 342
II. Ancient Languages (6 hours): Students must take one of the following two-course sequences: RELS 150/RELS 151 or RELS 154/BLNG 154 or RELS 155/BLNG 155
III. History (3 hours): HIST 305 or 306
IV. Art and Archaeology (3 hours): ANTH 130, ANTH 335, ART 105, ART 305
V. Electives (6 hours): Students must take two courses from those listed above as electives or other courses approved by the Department Head.

Minor in Philosophy

Reference Number: 429
Minimum Hours for Minor: 24

The minor in philosophy requires a minimum of 24 hours. At least 12 hours must be taken in courses numbered 300 or above.

The 24 hours must be distributed as follows:

I. Logic, Epistemology, & Metaphysics(6 hours): PHIL 214, PHIL 315, PHIL 330, PHIL 332, PHIL 334, PHIL 404, PHIL 415
II. History of Philosophy (6 hours): PHIL 331, PHIL 341, PHIL 342, PHIL 343, PHIL344, PHIL 345, PHIL 346, PHIL 347, PHIL 348, PHIL 406, PHIL 440, PHIL 450
III. Ethics and Values (6 hours, must take PHIL 350):
    - Take one of the following: PHIL 202, PHIL 207, PHIL 208, PHIL 211, PHIL 212, PHIL 305, PHIL 322, PHIL 323, PHIL 324, PHIL 333, PHIL 344, PHIL 350, PHIL 406, PHIL 426, PHIL 427.
IV. Electives (6 hours): Any philosophy course, and/or two (of the following three) RELS courses: RELS 242, RELS 317, RELS 318

Minor in Religious Studies

Reference Number: 447
Minimum Hours for Minor: 24

At least 12 hours must be taken in courses numbered 300 or above. The 24 hours must be distributed as follows:

I. World Religions (3 hours): RELS 102: World Religions

II. Religious Traditions (9 hours): RELS 302: Buddhism, RELS 303: Hinduism, RELS 317: Confucianism, RELS 318: Daoism, RELS 304: Judaism, RELS 305: Christianity, RELS 306: Islam

III. Comparative Approaches to the Study of Religion (3 hours): RELS 103: Religions of Asia, RELS 200: World Religious Literature, RELS 222: Christian, Jews, and Pagans in the Greco-Roman World, RELS 308: East Asian Religious Traditions, RELS 320: Religions of the Middle East, RELS 333: Women and Religion, RELS 341: Religion and the Environment

Electives (9 hours; at least 6 hours must be in RELS courses): Electives may be selected from among the total offerings in RELS. Electives also may be selected from the following pre-approved list (or other courses approved by the Department Head) as well as from departmentally - approved study abroad courses. Students may count up to 1 year of a language sequence in Arabic, Chinese, Greek, Hebrew, Japanese, or Latin or other languages approved by the Department Head. ANTH 446, ART 316, ART 407, ENG 396, ENG 487, HIST 318, HIST 407, HIST 454, PHIL 343, PSYS 451, any RELS course, SOCL 322.

Pre-Theology

Advisor: Dr. Jeffrey Samuels
Email: Jeffrey.Samuels@wku.edu
Cherry Hall, Office 300
Phone: (270) 745-3136

Theological seminaries, accredited by the American Association of Theological Schools, require for entrance the Bachelor of Arts or Bachelor of Science degree from an accredited four-year college or university. Pre-theological students should seek to attain a broad background in liberal arts subjects in their university studies. In selecting majors, serious consideration should be given to the fields of English, history, philosophy, and religious studies. Minors and free electives should be chosen from the areas of English, history, mass communication, philosophy, psychology, religious studies, sociology, and communication.

Entry requirements for specific theological seminaries and for different programs within these institutions vary. Students should consult seminary catalogs and the pre-theology advisor. Special attention should be paid to the language requirement made by some seminaries.

The courses recommended below to be taken in fulfilling Western Kentucky University's general education guidelines are not mandatory but include every basic recommendation of the American Association of Theological Schools: ENG 100, ENG 300; BLNG 152, BLNG 153, BLNG 154, BLNG 155; HIST 101, HIST 102, HIST 418; Natural Science (chemistry, physics, biology, or geology); PHIL 101, PHIL 102, PHIL 103; PSY 100 / PSYS 100; RELS 100, RELS 101, RELS 102, plus elective; COMM 145; Social Sciences (six hours from sociology, economics, anthropology, political science); MATH (three hour elective).

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Graduate Programs

The Philosophy and Religion department offers a Master of Arts in Religious Studies and a graduate certificate in Religious Studies. Additional information available at: www.wku.edu/graduate.

Department of Political Science

Dr. Scott Lasley, Head
Email: Scott.Lasley@wku.edu

Grise Hall, Office 300
Phone: (270) 745-4558; Fax: (270) 745-2945
Website: www.wku.edu/political-science

Professor: C. Cobane, V. Gordon,S. Lasley, J.Shadoan, E. Yager
Associate Professors: S. Ardrey, J. Budziak, J. Kash, S. Kiasatpour, R. Murphy, T. Rich, J. Turner, S. Vaughan
Assistant Professors: D. Boden, J. Brinkley

The Department of Political Science offers a Bachelor of Arts degree in three majors; Political Science, International Affairs, and Paralegal Studies. In addition, the Department offers an Associate of Arts in Paralegal Studies, a minor in Political Science and a certificate in Political Communication.

Major in Political Science

Program Coordinator: S. Lasley

Reference Number: 686
Minimum Hours for Major: 33

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/political_science_686.pdf

A program of study in Political Science furthers student awareness and understanding of political concepts and processes, assists the student in developing critical and analytical abilities, and creates a knowledgeable citizen. Completion of a curriculum in political science provides an individual with a broad background preparatory to a number of careers. Among these are government service, politics, business, teaching, research in political science, and entry into law and other graduate schools. Students may major or minor in political science.

The major in political science requires a minimum of 33 semester hours and leads to a Bachelor of Arts degree. A minor or second major is required. The requirements for a major include the following 18 hours of core courses:

- PS 110
- PS 499 (Students are advised to take all core courses before enrolling in PS 499).
- Four of the following six courses (one of which must be PS 250 or PS 260): PS 201, PS 250, PS 260, PS 301, PS 330, PS 435.

In addition to the 18 core hours, students are required to select 15 additional hours to complete the major. At least 17 credit hours in the major must be at the 300-level or higher. No more than 6 hours total can come from PS 403, PS 405, PS 407, and PS 498. PS 324 and PS 325 can both be repeated once. Three hours of credit from PS 324 and PS 325 can be used for the major, and three hours from each can be used as general electives.

Major in International Affairs

Program Coordinator: S. Lasley
Reference Number: 702
Minimum Hours for Degree:120
Minimum Hours for Major: 51
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/international_affairs_702.pdf

The International Affairs major is designed to prepare students for success in a global society. It integrates the information, techniques and skills of several disciplines including political science, economics, history, geography, religion, and modern languages to study and understand the complexity of the international environment. Students graduating in international affairs pursue careers in international and public affairs, international business, diplomacy, public service, journalism and international humanitarian work.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the Department Head.

The major in International Affairs requires a minimum of 51 semester hours and leads to a Bachelor of Arts degree. At least 23 hours must be at the 300-level or above. A minor or second major is required.

The requirements for a major include the following 21 hours of core courses: PS 250 (International Politics), PS 260 (Introduction to Comparative Politics), PS 357 (U.S. Foreign Policy), PS 497 (Senior Seminar in International Affairs), HIST 120 (Western Civilization Since 1648), ECON 202 (Principles of Economics-Micro) or ECON 203 (Principles of Economics-Macro), GEOG 110 (World Regional Geography).

In addition to the 21 core hours, students are required to select 12 additional hours in political science from PS 200, PS 299, PS 300, PS 301, PS 303, PS 350, PS 352, PS 355, PS 360, PS 361, PS 362, PS 363, PS 365, PS 366, PS 367, PS 368, PS 369, PS 449, PS 450, PS 457, and PS 460. Students may also enroll in PS 403, PS 405, or PS 407 for a total of three hours. (Note: PS 200 is equivalent to HIST 200, GEOG 200, and SPAN 200 and can be taken only once.)

The remaining 12 hours of electives should be chosen from the following courses with no more than 6 semester hours from one academic discipline. Students should consult the appropriate department and course catalog for prerequisites. AFAM 343, AFAM 350, ANTH 120, ANTH 340, ANTH 342, ANTH 350, ANTH 360, ARBC 324, ARBC 437, ARBC 438, COMM 463; CRIM 448, ECON 380, ECON 385, ECON 496; FIN 433, FIN 436; FLK 310, FLK 340, FLK 342, FLK 350; FREN 323, FREN 427; GERM 202, GERM 335; GEOG 330, GEOG 350, GEOG 364, GEOG 385, GEOG 425, GEOG 455, GEOG 465, GEOG 466, GEOG 467; HIST 299, HIST 324, HIST 333, HIST 335, HIST 360, HIST 365, HIST 370, HIST 380, HIST 425, HIST 438, HIST 439, HIST 461, HIST 462, HIST 465, HIST 471, HIST 472, HIST 494; CSJ 380, PR354; MGT 316, MGT 303; MKT 324; RELS 302, RELS 303, RELS 304, RELS 305, RELS 306, RELS 324; SOCL 240, SOCL 363, SOCL 376; SPAN 372, SPAN 373.

Additional baccalaureate degree requirements for students pursuing a major in International Affairs: Students are required to take a modern language through the intermediate level (201 and 202). For modern languages not taught at Western Kentucky University, students should consult with the Department of Modern Languages for transfer and testing information.

Students pursuing a degree in international affairs are strongly encouraged to participate in a study abroad program or an international internship experience.

Major in Paralegal Studies

Program Coordinator: J. Shadoan
Email: julie.shadoan@wku.edu
Website: www.wku.edu/political-science/paralegal

Reference Number: 5002
Minimum Hours for Major: 60

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/uc/paralegal_studies_5002.pdf

Paralegals, also called legal assistants, work with lawyers in a wide range of professional settings and perform tasks that include legal research, legal writing and document preparation, information gathering, litigation support, legal technology support, and office management.

Paralegals shall not engage in the unauthorized practice of law as proscribed by Kentucky law and the Supreme Court Rules (SCR 3.130 [5.5]) and must be appropriately supervised by a lawyer to ensure the paralegal's conduct is compatible with the professional and ethical standards of the practice (SCR 3.130 [5.3]).

The objectives of the Paralegal Studies Program are: (1) to create, implement, and maintain a strong, flexible program directed to the quality education of occupationally-competent paralegals; (2) to provide a paralegal education program that leads to employment of its graduates by a wide range of employers; (3) to provide paralegals with a well-rounded, balanced education founded on a beneficial mix of general education, theory, and practical courses stressing understanding and reasoning rather than rote learning of facts; (4) to support federal, Kentucky and local Rules of Procedure and general principles of ethical legal practice, professional responsibility, the prohibitions against the unauthorized practice of law by non-lawyers, and the use and supervision of paralegals by lawyers; (5) to provide an educational program that is responsive to the varied needs of the Commonwealth of Kentucky and the region and contributes to the overall advancement of the legal profession; (6) to provide a program which instills respect for the legal profession and its foundations, institutions, and quest for justice; and, (7) to maintain equality of opportunity in the educational program without discrimination or segregation on the grounds of race, color, religion, natural origin, gender, age, disability or economic need.

Credits from other accredited institutions of higher education may be transferred and applied toward the degree. An official transcript from each such college or university attended is required as a part of the admission process. Postsecondary credit will be evaluated on a course-by-course basis for acceptance and applicability to the Program.

General law and legal-specialty course credits will be accepted only from paralegal programs approved by the American Bar Association or programs in substantial compliance with the ABA guidelines.

The Paralegal Major (PLS) is designed to provide students with an interdisciplinary educational experience integrating knowledge and skills from multiple subjects including law, history, sociology, political science, technology and business. The PLS degree requires 120 credit hours and leads to a Bachelor of Arts degree. Degrees will be awarded to those students who complete all requirements with an overall grade point average of 2.0 (out of 4.0) and receive a grade of "C" or better in all PLS courses.

The following 33 hours of legal specialty/political science core are required: PLS 190, PLS 194, PLS 200C, PLS 250, PLS 283, PLS 291, PLS 296, PLS 393, PLS 450, PLS 499, and PS 326.

Students must take 15 hours of electives from the following PLS courses: PLS 280, PLS 282, or PLS 294; PLS 350, PLS 360, PLS 381, PLS 392, PLS 395. (12 hours must be at the upper-level)

In addition, students must take 12 hours from the following list of electives available to political science majors: BUS 210C or BUS 254C, CRIM 330, CRIM 332, CRIM 380, PS 304, PS 311, PS 316, PS 412, HIST 445, HIST 446, or other courses approved by the PLS advisors. (9 hours must be at the upper-level)

The Bachelor of Arts in Paralegal Studies is approved by the American Bar Association.

Associate Degree in Paralegal Studies (A.A.)

Program Coordinator: J. Shadoan

Reference Number: 276P (seeking admission)
276 (officially admitted)

Minimum Hours for Degree: 64-66
Degree: Associate of Arts

Like the Bachelor of Arts program, the Associate of Arts in Paralegal Studies prepares students for careers as paralegals and legal assistants.

The associate degree in Paralegal Studies is approved by the American Bar Association and requires a minimum of 66 credit hours. It is designed to be completed in four or five semesters. Students must fulfill the stated requirements to declare a paralegal major and must follow the curriculum guidelines and the course prerequisites to graduate.

Paralegal degrees will be awarded to those students who complete all requirements with an overall grade point average of 2.0 (out of 4.0) and receive a grade of "C" or better in legal specialty courses The course prerequisites for admission to the program are ENGL 100C, PS 110, OST 220C and PLS 190C. Colonnade and other non-legal specialty requirements include: BUS 214C, BUS 110C/ACC 200C, COMM 145, MA 109C/MA 116C, 3 hours from the Colonnade Natural and Physical Sciences category, 3 hours from the Colonnade Arts/Humanities category, 3 hours from Colonnade Social and Behavioral Sciences category, and 3 hours of PLS electives. The courses required in the major – otherwise known as legal specialty courses - are as follows: PLS 250, PLS 283C, PLS 291C, PLS 294C, PLS 296C, PLS 392, PLS 393, PLS 395, PLS 450, and PLS 499.

Minor in Political Science

Program Coordinator: S. Lasley

Reference Number: 383
Minimum Hours for Minor: 21

The minor in political science requires a minimum of 21 semester hours with at least one-half of the hours to be earned at the 300-level or above. The requirements for a minor include the following: 6 hours of core courses: PS 110 (American National Government) and PS 250 (International Politics) or PS 260 (Introduction to Comparative Politics).

In addition to the 6 core hours, students are required to select 15 additional hours to complete the minor. No more than three hours total may come from PS 403, PS 405, PS 407, and PS 498. PS 324 and 325 can both be repeated once. Only 3 hours can be used for the minor and 3 hours as general electives.

Political Communication Certificate

Program Coordinator: S. Lasley

Reference Number: 192
Minimum Hours for Certificate: 18

The certificate in Political Communication allows for exploration of the role that communication plays in political systems by combining studies in the fields of communication and political science. The certificate is designed for students preparing for careers as legislative aides, political consultants, campaign managers, speechwriters, or lobbyists. Students who complete the certificate will have a foundation of communication skills and theory with a working knowledge of the political system.

Co-sponsored by the Department of Communication and Department of Political Science, the certificate program consists of 18 hours of required and elective courses that complement both a student's major/minor and career aspirations.

Students are required to take PS 375, Fundamentals of Political Campaign Management, COMM 388, and PS 371 or PS 372. Students will select one course from the following list of Political Science courses: PS 310, PS 311, PS 316, PS 331, PS 370, PS 371, PS 372, PS 373, PS 374, PS 435 and 2 courses from the following list of Communication Studies courses: COMM 245, COMM 345, COMM 346, COMM 349. Students should contact the Political Science or Communication Department for specific information on designing a certificate program.

Study Abroad

The world is our classroom. The Department of Political Science offers several study abroad opportunities including the United Kingdom, Belgium, Ghana, the Czech Republic, Russia, and Turkey. Student scholarships and financial assistance are available through the University. For more information on international student travel, contact the Department.

Honors Program

The Department of Political Science participates in the Dixie and Peter Mahurin Honors College. Department honors courses allow students of exceptional academic abilities to investigate political phenomena and concepts in a more in-depth manner and to discuss contemporary political issues in small group settings. Honor courses encourage the development of critical thinking skills and analytical writing. Students also have an opportunity to assist faculty with research, present papers at regional and national conferences and/or engage in self-designed research projects. Political Science majors/minors and International Affairs majors in the Mahurin Honors College can complete their honors thesis in consultation with an advisor. For further information on honors courses and opportunities, contact Professor Scott Lasley, Department of Political Science.

Graduate Program − The Department of Political Science offers a Master of Public Administration degree. Assistantships are available to outstanding graduate students. In addition, the department offers a JUMP (Joint Undergraduate Master's Program) that allows undergraduate students to earn up to 18 hours of graduate credit that can be applied to the MPA degree. For more information, visit www.wku.edu/graduate or contact the Department of Political Science.

Department of Sociology

Dr. Douglas Smith, Head
Email: Douglas.Smith@wku.edu

Grise Hall, Office 101
Phone: 270-745-2150; Fax: 270-745-6493
Website: www.wku.edu/sociology

Professors: J. Daday, H. Drummond, S. Groce, J. Musalia, A. Onyekwuluje, M. Pruitt, D. Smith
Associate Professors: N. Breazeale, J. Kanan, A. Krull, D. Lovell, L. McClain, C. Trojan
Assistant Professors: R. Jones, J. McMahon, P. Vasiliev
Transitional Retirees: J. Faine
Professors Emeriti: E. Bohlander, F. Baali, T. Dunn, A. Goetting, K. Kalab, J. Krenzin, J. Schock, C. Taylor

Sociology is the scientific study of social life, applying the analytic rigor of the scientific method to the social world so that we might understand and improve the human condition. Students who major in sociology learn to deal creatively with the most pressing problems of the day, such as the increase in our federal prison population, rising class inequality, or environmental degradation. Sociology majors thus develop into critical thinkers with a global perspective, a deep appreciation for diversity and strong problem-solving abilities. Completion of the curriculum in sociology or criminology provides a broad background for students pursuing a variety of careers.

Students develop the skills most desired by today's employers including the ability to communicate effectively, frame and solve problems realistically and in teamwork situations, plan and evaluate projects and programs, prepare clear and concise reports, and speak effectively in varied group situations. Students who graduate are thus poised to enter a wide range of occupational areas, including corporations, government agencies, social service institutions, and other nonprofit organizations. Furthermore, an undergraduate major is also an excellent foundation for graduate study in anticipation of a career in college teaching, law, business, or medicine.

Major in Criminology

Reference Number: 627
Minimum Hours for Major: 34
Minimum Hours for Degree: 120
Degree: Bachelor of Arts
Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/criminology_627.pdf

Criminology is the scientific study of crime and delinquency. It looks at the causes, correction, and prevention of crime. Students interested in issues of crime, law, and justice will find the major in criminology academically and professionally rewarding. The major in criminology requires a minimum of 34 credit hours and leads to a Bachelor of Arts degree. Students majoring in criminology must select a minor or second major.

The following 22 hours of core courses are required for the major: CRIM 101, CRIM 330, CRIM 332, CRIM 380, CRIM 499, SOCL 300 SOCL 302, and SOCL 309. In addition, the students are required to take an additional 12 hours of elective courses selected from the following list: ANTH 300, CHEM 111, CHEM 430, CRIM 22CRI2, CRIM 232, CRIM 233, CRIM 234, CRIM 346, CRIM 361, CRIM 430, CRIM 432, CRIM 434, CRIM 437, CRIM 438, CRIM 439, CRIM 446, CRIM 447, CRIM 448, CRIM 451, CRIM 456, CRIM 489, CRIM 495, CRIM 496, HIST 445, HIST 446, PH 165, PH 467, PH 472, PS 220, PS 326, PS 328, PS 350, PSY 440/PSYS 440, PSY 441, PSY 470, SOCL 359, SOCL 389, SOCL 435, SWRK 356.

Major in Sociology

Reference Number: 775
Minimum Hours for Major: 31
Minimum Hours for Degree: 120
Degree: Bachelor of Arts
Sample Degree Paths:

General (without concentration): http://wku.edu/degreepaths/18-19/documents/pcal/sociology_775.pdf

Inequality and Social Change: http://wku.edu/degreepaths/18-19/documents/pcal/sociology_inequality_and_social_775.pdf

Research Methods: http://wku.edu/degreepaths/18-19/documents/pcal/sociology_research_methods_775.pdf

Community, Environment & Development: http://wku.edu/degreepaths/18-19/documents/pcal/sociology_community_environment_and_devl_775.pdf

Family, Gender & Sexuality: http://wku.edu/degreepaths/18-19/documents/pcal/sociology_family_gender_and_sexuality_775.pdf

The major in sociology requires a minimum of 31 credit hours and leads to a Bachelor of Arts degree. At least half the total semester hours earned must be in upper-division courses (courses numbered 300-499). A minor or second major is required. However, student majoring in sociology may not have a second major in criminology

Students may choose one of four thematic concentrations or they may choose a general major. The following courses are required for every sociology major: SOCL 100, 300, 302, 304, 499. Additional core requirements and restricted electives depend on the major selected (see below). Non-restricted electives must be chosen from the following courses: CRIM 330, CRIM 332, CRIM 361, CRIM 380, CRIM 432, CRIM 434, CRIM 438, CRIM 446, CRIM 447, CRIM 448, CRIM 451, SOCL 210, SOCL 220, SOCL 240, SOCL 245, SOCL 260, SOCL 270, SOCL 309, SOCL 310, SOCL 312, SOCL 322, SOCL 324, SOCL 342, SOCL 345, SOCL 346, SOCL 350, SOCL 352, SOCL 355, SOCL 359, SOCL 360, SOCL 362, SOCL 363, SOCL 375, SOCL 376, SOCL 389, SOCL 402, SOCL 404, SOCL 408, SOCL 410, SOCL 435, SOCL 440, SOCL 442, SOCL 450, SOCL 452, SOCL 455, SOCL 466, SOCL 470, SOCL 480, SOCL 489, SOCL 494, SOCL 495, SOCL 496. Not more than 3 hours earned in SOCL 495/SOCL 496 "Directed Study" in Sociology may be counted toward the first 31 hours required for the major.

*Not more than 6 hours may be taken from the following: CRIM 330, CRIM 332, CRIM 361, CRIM 380, CRIM 432, CRIM 434, CRIM 438. CRIM 446, CRIM 447, CRIM 448, CRIM 451; SOCL 309, SOCL 359, SOCL 389, and SOCL 435.

Students may complete more than one concentration and in so doing have both appear on his or her transcript. However, a single elective cannot count toward completion of more than one concentration (e.g., a student may not count SOCL 362 toward the completion of both "Inequality and Social Change" concentration AND the "Family, Gender, and Sexuality" concentration).

General Sociology Major. This major allows students to choose courses from among all sociology electives to design a program of study that best fits their particular needs and interests.

Core courses
SOCL 100: Introductory Sociology
SOCL 210: Interaction Self and Society or SOCL 240: Global Social Problems
SOCL 300: Using Statistics in Sociology
SOCL 302: Strategies of Social Research
SOCL 304: Sociological Theory: Perspectives on Society
SOCL 499: Senior Seminar
Electives (15 hours) from among all approved electives listed above.

Community, Environment, and Development. This concentration emphasizes the causes, dynamics, and consequences of socioeconomic change for people, how they live in communities, and how they relate to the natural world.

Core Courses
SOCL 100: Introductory Sociology
SOCL 270: Introduction to Community, Environment, and Development
SOCL 300: Using Statistics in Sociology
SOCL 302: Strategies of Social Research
SOCL 304: Sociological Theory: Perspectives on Society
SOCL 499: Senior Seminar

Concentration Courses
Nine hours of restricted electives from the following: SOCL 240, SOCL 312, SOCL 350, SOCL 360, SOCL 363, SOCL 372, SOCL 376, SOCL 452, SOCL 455, SOCL 470, SOCL 480. Six hours of non-restricted sociology elective credit from among all approved electives.

Family, Gender, and Sexuality. This concentration emphasizes the ways in which gender, sexuality, and kinship relations shape individual and group experiences.

Core Courses
SOCL 100: Introductory Sociology
SOCL 220: Marriage and the Family
SOCL 300: Using Statistics in Sociology
SOCL 302: Strategies of Social Research
SOCL 304: Sociological Theory: Perspectives on Society
SOCL 499: Senior Seminar

Concentration Courses
Nine hours of restricted electives from the following: CRIM 446, SOCL 342, SOCL 355, SOCL 359, SOCL 362, SOCL 410, SOCL 435, SOCL 466. Six hours of non-restricted sociology elective credit from among all approved electives.

Inequality and Social Change. This concentration emphasizes inequalities, such as those of race, class, and sex, the manner in which such inequalities become structurally rooted in society, and the ways in which individuals and groups seek to reverse inequalities.

Core Courses
SOCL 100: Introductory Sociology
SOCL 300: Using Statistics in Sociology
SOCL 302: Strategies of Social Research
SOCL 304: Sociological Theory: Perspectives on Society
SOCL 350: Systems of Social Inequality or SOCL 362: Social Institutions: Race, Class, & Gender
SOCL 499: Senior Seminar

Concentration Courses
Nine hours of restricted electives from the following: CRIM 361, CRIM 449, SOCL 240, SOCL 260, SOCL 312, SOCL 355, SOCL 375, SOCL 440, SOCL 452, SOCL 466. Six hours of non-restricted sociology elective credit from among all approved electives.

Research Methods. This concentration includes coursework designed to enhance methodological skills and the use of statistical techniques associated with the collection, analysis, and presentation of social science data. (Note: Students pursing this concentration are strongly advised to take MATH 183).

Core Courses
SOCL 100: Introductory Sociology
SOCL 300: Using Statistics in Sociology
SOCL 302: Strategies of Social Research
SOCL 304: Sociological Theory: Perspectives on Society
SOCL 404: Qualitative Research Methods
SOCL 499: Senior Seminar

Concentration Courses
Six hours of restrictive electives from the following: ANTH 399/FLK 399, ECON 465, GISC 316, SOCL 402, SOCL 408, STAT 330. Nine hours of non-restricted sociology elective credit from among all approved electives.

Minor in Criminology

Reference Number: 342
Minimum Hours for Minor: 21

The minor in criminology requires a minimum of 21 semester hours of coursework. The following courses are required: CRIM 330, CRIM 332, CRIM 380, and SOCL 309. An additional 9 elective hours are to be selected from the following courses: ANTH 300, CHEM 111, CHEM 430, CRIM 101, CRIM 222, CRIM 232, CRIM 233, CRIM 234, CRIM 346, CRIM 361, CRIM 430, CRIM 432, CRIM 434, CRIM 437, CRIM 438, CRIM 439, CRIM 446, CRIM 447, CRIM 448, CRIM 451, CRIM 456, CRIM 489, CRIM 495, CRIM 496, HIST 445, HIST 446, PH 165, PH 467, PH 472, PS 220, PS 326, PS 328, PS 350, PSY 440/PSYS 440, PSY 441, PSY 470, SOCL 359, SOCL 389, SOCL 435, SWRK 356.

Minor in Sexuality Studies

Reference Number: 454
Minimum Hours for Minor: 18

The minor in Sexuality Studies requires a minimum of 18 semester hours, including three required courses: PSYS 482, PH 365, and SOCL 359. Students will fulfill the remaining nine hours of the minor by choosing from among the following elective courses: ANTH 343, BIOL 302, FACS 311, FACS 495, ENG 360, HIST 420, PH 464, PH 468, SOCL 220, SOCL 355, and SOCL 466. Students may not apply more than nine credit hours from one discipline toward the minor. The minor in Sexuality Studies is a cross-disciplinary exploration of human sexuality. Students who complete the minor gain a better understanding of human sexuality and acquire valuable background knowledge applicable to many humanities and social science fields, and to careers in education, counseling, social work, social service agencies, and public health.

Minor in Sociology

Reference Number: 461
Minimum Hours for Minor: 21

The minor in sociology requires a minimum of 21 semester hours of sociology coursework. At least 12 hours earned in the minor must be in upper-division courses (courses numbered 300-499). The following courses are required for a minor: SOCL 100, 300, 302, 304. Not more than 3 hours earned in SOCL 495/496 “Directed Study” in Sociology may be counted toward the first 21 hours required for the minor.

The remaining 9 hours may be selected from: CRIM 330, CRIM 332, CRIM 361, CRIM 380, CRIM 432, CRIM 434, CRIM 438, CRIM 446, CRIM 451, SOCL 210, SOCL 220, SOCL 240, SOCL 245, SOCL 260, SOCL 270, SOCL 309, SOCL 310, SOCL 312, SOCL 322, SOCL 324, SOCL 342, SOCL 345, SOCL 346, SOCL 350, SOCL 352, SOCL 355, SOCL 359, SOCL 360, SOCL 362, SOCL 363, SOCL 372, SOCL 375, SOCL 376, SOCL 389, SOCL 402, SOCL 404, SOCL 408, SOCL 410, SOCL 435, SOCL 440, SOCL 442, SOCL 447, SOCL 448, SOCL 450, SOCL 452, SOCL 455, SOCL 466, SOCL 470, SOCL 480, SOCL 489, SOCL 494, SOCL 495, SOCL 496.

JUMP (Joint Undergraduate/Master's Program) in Sociology − A Joint Undergraduate/Master's Program (JUMP) is available in which students may earn a Bachelor of Arts in Sociology and a Master of Arts in Sociology concurrently. This program provides highly qualified students with an excellent opportunity for accelerated study. JUMP students take undergraduate coursework that is applied to the undergraduate degree and graduate coursework that can be applied to both the undergraduate and graduate degrees. Interested students should apply upon completion of 60 hours of undergraduate credit.

Graduate Programs − The Department offers a Master of Arts in Sociology and a Master of Arts in Criminology. The Criminology MA is entirely online. Graduate teaching and research assistantships are available to qualified students. For further information see the departmental website, The Graduate School's website located at www.wku.edu/graduate, or contact the Sociology or Criminology Graduate Advisor, Department of Sociology, Western Kentucky University.

Department of Theatre & Dance

Dr. David Young, Department Head
Email: David.Young@wku.edu

Gordon Wilson Hall, Office 300A
Phone: (270) 745-5845; Fax: (270) 745-5879
Website: www.wku.edu/theatre-and-dance

Professors: A. Clark, S. Pollatesk, S. Stroot, T. Tutino
Associate Professors: M. Dvoskin, D. Young
Assistant Professors: J. Barber, M. Frohling, M. McKinley, A. Patsfall, A. Rollings,
Instructors I: C. Jordan
Professors Emeriti: J. Brown, J. Kesler, W. Leonard, L. Ruff, B. Veenker

The Department of Theatre & Dance offers 3 majors, and 4 minors. Our AB degrees in theatre & in dance are designed to offer students the opportunity to explore those disciplines in depth while leaving room to include a minor (or to double major) in another discipline. Our BFA in Performing Arts degree provides a broad study of theatre while also offering intensive pre-professional training. We also offer 4 minors: a minor in Theatre, a minor in Music Theatre, a minor in Dance and a minor in Arts Administration.

Western Kentucky University is an accredited institutional member of the National Association of Schools of Theatre and the National Association of Schools of Dance.

All of the programs of study offered by the Department of Theatre & Dance are designed to ensure a thoughtful balance of theory and practice. Our intensive production season complements that curriculum by offering students ample opportunity to put theory to the test as they work side by side with their peers, faculty and guest artists on a steady variety of theatre and dance productions. Career preparation is also woven into our curriculum with courses such as Acting Audition Workshop, Dance Pedagogy, and Performing Arts Career Seminar.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Program Requirements, and (c) "Academic Requirements and Regulations." Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the Department Head.

Major in Theatre

Reference Number: 798
Minimum Hours for Major: 45
Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/theatre_798.pdf

A minor or second major is required. The following courses are required for the major: PERF 175 and THEA 252. Students must take two of the following courses: THEA 363, THEA 364, THEA 365. In addition, students must take THEA 375 or THEA 430. To meet the performance requirement, students must take 7 credits from the following courses (at least 2 of which must be at the 300-level or above: PERF 105, THEA 101, THEA 300, THEA 301, THEA 303, THEA 371, DANC 235, or any single dance technique course. The following design and production courses are required: THEA 219, PERF 120, PERF 220.

In addition, students must take two of the following design and production courses: THEA 222, THEA 241, or THEA 250. Students must also take a total of 3 credit hours of production or performance practicum courses, including 1 full credit of PERF 320, and a total of 2 credit hours from a menu of PERF 321, PERF 340, PERF 341, PERF 420, and PERF 430. Students must take 10 hours of restricted electives form any relevant THEA, PERF, or DANC course with their advisor's approval. At least 23 credits applied to this major must be upper-division (300 level or above).

Major in Dance

Reference Number: 630P (seeking admission)
630 (officially admitted)
Minimum Hours for Major: 45

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/pcal/dance_630.pdf

In addition to the standard WKU admission process, incoming students (including transfer students) wishing to major in Dance must also participate in the department's initial dance placement audition process, after which they will be enrolled as "seeking admission" into the A.B. in Dance program. The auditions for course placement will be held every semester. Prospective students must attend one of the audition days or submit an audition video. Following the audition, the dance faculty will review and the send the student a copy of their technique assessment and course placement. The student may then be enrolled as "seeking admission" into the A.B. in Dance degree. Further developmental assessments of seeking admission students will be made by the dance faculty during the first two semesters.

A student may apply for full admittance into the A.B. in Dance degree after the completion of 2 semesters (transfer students must complete at least 15 hours at WKU). Students must meet the following minimum requirements before applying: (1) A minimum overall grade point average 2.5, (2) Completion of 8 hours of dance technique, and (3) Students must have taken or currently be enrolled in a 300 level dance technique course (ballet, jazz, modern).

Demonstrate proficient talent, commitment, and a reasonable likelihood of achieving the technique level requirements of the degree program.

Following faculty review of applications for the A.B. in Dance degree, letters of acceptance or non-acceptance will be sent to the students. Students can re-apply once after non-acceptance. Students denied admission into the A.B. in Dance program may appeal that decision by submitting a written appeal to the department head. The admittance by their 4th semester and be accepted by the completion of their 5th semester. Transfer students must apply and be accepted prior to completing 30 credit hours at WKU. Once admitted to the A.B. in Dance degree, a student will be regularly assessed by the dance faculty to ensure that the student is successfully progressing within the degree program.

The following courses are required: PERF 175, PERF 120, PERF 220; DANC 301, DANC 235, DANC 310, DANC 350, DANC 420, DANC 445, one technical production course chosen from THEA 250 or THEA 241, and 3 hours of upper-division restricted electives in dance or related areas. In addition, students are required to complete 8 hours of ballet technique courses (2 hours each), 4 hours of modern technique courses (2 hours each), and 4 hours of jazz technique courses (2 hours each) and 2 hours of tap technique. Initial placement for technique courses will be based on demonstrated skill level; students must achieve at least a level 5 in either ballet or jazz and a level 3 in a second genre. A second major or minor is required.

For a complete explanation of the AB in Dance policies and procedures, please visit the Theatre and Dance department website at http://www.wku.edu/theatre-and-dance/departmental-forms.php and download a copy of the current AB Dance Handbook.

Major in Performing Arts

Reference Number: 588P (seeking admission)
588 (officially admitted)
Minimum Hours for Major: 74
Sample Degree Path for Concentration:

Minimum Hours for Degree: 120
Degree: Bachelor of Fine Arts

Acting: http://wku.edu/degreepaths/18-19/documents/pcal/performing_arts_acting_588.pdf
Directing: http://wku.edu/degreepaths/18-19/documents/pcal/performing_arts_directing_588.pdf
Music Theatre: http://wku.edu/degreepaths/18-19/documents/pcal/perorming_arts_music_theatre_588.pdf
Theatre Design and Technology: http://wku.edu/degreepaths/18-19/documents/pcal/performing_arts_theatre_design_588.pdf

The Performing Arts major is an interdisciplinary Bachelor of Fine Arts degree that requires the completion of a common 37 credit hour performing arts core and a 37 credit hour depth concentration in one of the following areas:

- Acting
- Directing
- Music Theatre
- Theatre Design and Technology

Acceptance into the BFA in Performing Arts is by audition or interview, typically in the student's third semester in the program. Until admission, the student's status is considered "seeking admission," reference number 588P. The auditioning or interviewing student should demonstrate exceptional talent, commitment, self-discipline, reliability and a reasonable likelihood of success as a performing arts professional in at least one area of BFA concentration. In order to audition or interview, the student should have a 2.5 cumulative GPA and complete an application process in consultation with his or her advisor. Once admitted, the student must maintain a cumulative GPA of at least 2.5, earn a grade of C or better in all courses required in the BFA program, and maintain an exceptional level of commitment, self-discipline, reliability, and consistent artistic growth and development appropriate to his or her chosen concentration, as assessed through the department Jury/Portfolio Review (JPR) process. For a complete explanation of the BFA in Performing Arts policies and procedures, please visit the Theatre and Dance department website at http://www.wku.edu/theatre-and-dance/departmental-forms.php and download a copy of the appropriate BFA Handbook.

Performing Arts Core (37 hours): All concentrations require the following courses: PERF 175, PERF 120, PERF 121, PERF 220, PERF 221, PERF 320, PERF 321, PERF 450, PERF 451.

- Nine hours of history/theory courses: THEA 252, THEA 363, and either THEA 364 (required in all concentrations except music theatre) or THEA 431 (required of music theatre concentrators).
- Three hours of related arts courses selected from: ART 100, ART 105, or MUS 120. Theatre design and technology concentrators must take ART 105.
- Five hours of performance courses selected from: PERF 105, PERF 205; THEA 101, THEA 371; DANC 235, DANC 310, or any *single* dance technique course. Music theatre concentrators must take THEA 101.
- Nine hours of design and production courses: THEA 219 and two of the following threes course: THEA 222, THEA 250, THEA 241.

Acting Concentration Required Courses (37 hours): THEA 101, THEA 141, THEA 203, THEA 300, THEA 301, THEA 354 or THEA 355, THEA 391, THEA 401, THEA 410; PERF 205, a modern dance technique course (level depends on initial placement), and 10-15 hours of restricted electives (any relevant course in drama, theatre, dance, music theatre performance, etc. with advisor's approval). The total number of restricted electives may vary, depending on whether PERF 205 and THEA 101 are tallied in the BFA core or in this concentration.

Directing Concentration Required Courses (37 hours): PERF 205, THEA 101, THEA 300, THEA 301, THEA 312, THEA 354 or THEA 355, THEA 371, THEA 380, THEA 391, THEA 401; DANC 310; PERF 400 or THEA 392, and 5-13 hours of restricted electives (any relevant course in drama, theatre, dance, music theatre performance, etc. with advisor's approval). The total number of restricted electives may vary, depending on whether, PERF 205, THEA 101 and/or THEA 371 are tallied in the BFA core or in this concentration.

Music Theatre Concentration Required Courses (37 hours): THEA 101, THEA 141, THEA 203, THEA 300, THEA 301, THEA 307, THEA 407, THEA 385 for 4 hours (repeatable 1 credit course), 6 hours of jazz dance technique courses, 4 hours of ballet dance technique courses, and 2 hours of tap dance. The following music courses are also required: MUS 100, MUS 160, MUS 162 and MUS 350 for 3 hours (repeatable 1 credit course). Students demonstrating the ability to play the piano adequately may substitute an additional credit of any applied music lesson or vocal ensemble for MUS 160. MUS 162 may be replaced with an additional applied voice lesson by audition with the music department voice music faculty. PERF 205 and THEA 431 are required to be taken as part of the BFA Core.

Theatre Design and Technology Concentration Required Courses (37 hours): THEA 319, THEA 354 or THEA 355; PERF 420, PERF 421; THEA 222 or THEA 250 or THEA 241 (must take whichever not taken in satisfaction of the BFA core requirement), 9 hours of THEA 424 (repeatable 3 hours topics course), and 17 hours of restricted electives (any relevant course in drama, theatre, dance, music theatre performance, etc. with advisor's approval).

Minor in Dance

Reference Number: 344
Minimum Hours for Minor: 27

The minor in dance requires a minimum of 27 semester hours. The requirements are:

- Ballet Technique Courses 4 hours (Initial placement based on demonstrated skill level. Must achieve at least level 4* in one technique and level 3* in a second technique.)
- Jazz Technique Courses 4 hours (Initial placement based on demonstrated skill level. Must achieve at least level 4* in one technique and level 3* in a second technique.)
- Modern Technique Courses 2 hours (Initial placement based on demonstrated skill level. Must achieve at least level 4* in one technique and level 3* in a second technique.)
- PERF 120: Rehearsal and Production 1 hour and PERF 220: Production Lab I 1 hour
- DANC 235: Dance Improvisation 3 hours and DANC 310: Choreography I 3 hours

- One of the following history courses (3 hours): DANC .360: Dance in Culture or DANC 350: Dance History
- One of the following technical production courses (3 hours): THEA 250: Stage Electrics or THEA 241: Costume Technology
- Restricted Electives 3 hours (Three hours earned by successfully completing any upper-division DANC courses.)

** Please note that Dance courses at level III and up are upper-division courses and thus will serve to ensure that at least 50% of the coursework in this minor will be at the upper-division level.*

Minor in Theatre

Reference Number: 490
Minimum Hours for Minor: 26

The minor in theatre requires the completion of the following 26 credit hour program. At least 50% of the coursework in this minor must be at the upper-division level.

History & Theory* (6 hours)*:

- THEA 151: Theatre Appreciation 3 hours or
- THEA 252: Fundamentals of Theatre 3 hours*

And one of the following four courses:

- THEA 363: World Theatre History I 3 hours
- THEA 364: World Theatre History II 3 hours
- THEA 365: U.S. Theatre History 3 hours
- THEA 341: Culture and performance 3 hours

***Performance* (3 hours)**:

- PERF 101: Acting 3 hours or
- THEA 101: Acting I 3 hours (Taken once as 0.5 credit or twice as 1 credit)

Production (5 hours):

- PERF 120: Rehearsal & Production 1 hour
- PERF 220: Production Lab I 1 hour

And one of the following courses:

- THEA 222: Stagecraft 3 hours
- THEA 241: Costume Technology 3 hours
- THEA 250: Stage Electrics 3 hours
- THEA 312: Stage Management 3 hours

Restricted Upper- Division Electives 12 hours:
Any upper-division (level 300 or above) THEA, PERF or DANC course with advisor's approval. Relevant coursework in other departments may be included in this category with the approval of advisor and Theatre & Dance department head.

**Note: (*Please note: THEA 252 is a pre-requisite for many theatre courses, including Design I, Acting III, Directing I, Theatre for Young Audiences, Theatre in Diversion, and other classes.)*

Minor in Musical Theatre

Reference Number: 424
Minimum Hours for Minor: 28

The minor in musical theatre offers students the opportunity to attain basic skills required for musical theatre performance. It requires the completion of a minimum of 28 credit hours, as indicated below. No fewer than 14 credits in the minor must be upper-division.

The following courses are required for the minor in Musical Theatre:

Acting Category (6 credit hours): THEA 101: Acting I or PERF 101 Acting and THEA 300: Acting II

Dance Category (2 credit hours): Choose one Ballet, Jazz or Tap Dance Technique Course

Music Category (11 credit hours): MUS 101: Music Theory I (For-Non-Majors), MUS 150: Voice Secondary or MUS 162: Group Voice; THEA 324: Applied Vocal Styles I (repeatable), THEA 324: Applied Vocal Styles I (repeatable); MUS 350: Voice Secondary; THEA 306: Musical Theatre Ensemble, and THEA 307: Music Theatre Workshops I

History & Theory Category (6 credit hours): THEA 252: Fundamentals of Theatre and THEA 430: Musical Theatre

Electives (3 credit hours): Upper Division Restricted Electives (300 level of above)

Minor in Arts Administration

Reference Number: 443
Minimum Hours for Minor: 24

The minor in Arts Administration (Reference number 428) requires the completion of the following 24 credit hour program. Required courses are as follows: (1) 9 Arts Content credits in any combination from the following subject areas: Art, Dance, Music, or Theatre; (2) PERF 423: Performing Arts Management or ART 496: Special Topics-Gallery/Museum Studies.

12 credits in any combination from the following courses (12 hours): ACCT 200: Introductory Accounting, Financial, BA 110: Intro to Business and Entrepreneurship, ENT 312: Entrepreneurship, LEAD 300: Leadership Theory and Application, LEAD 475: Leadership Studies Special Topics, MGT 210: Organization and Management, MGT 333: Management of Non-Profit Organization, MKT 322: Integrated Marking Communications, MKT 325: Personal Selling, MKT 331: Social Media Marketing, PR 255: Fundamentals of Public Relations, REC 220: Understanding the Nonprofit Sector, REC 460: Grant Writing for Nonprofit Organizations

Interdisciplinary Programs

Minor in Film Studies

Director: Dr. Ted Hovet
Email: Ted.Hovet@wku.edu
Cherry Hall, Office 110-B
Phone: (270) 745-5782

Reference Number: 358
Minimum Hours for Minor: 21

The minor in film studies requires a minimum of 21 semester hours, including three required courses: FILM 201, ENG 366/FILM 366, and ENG 465/FILM 465. Students will fulfill the remaining twelve hours of the minor by choosing from among seventeen elective courses: ANTH 448, ANTH 449, BCOM 264, BCOM 378, BCOM 481, ENG 309, ENG 365, ENG 466/FILM 466, ENG 499, GERM 437, FREN 450, PS 303, SPAN 490, THEA 303, SUS 295, FILM 369, FILM 399 (repeatable for credit), FILM 250, FILM 469. (Note: ANTH 449 or BCOM 264 will count toward the minor, but not both). The minor in Film Studies will give students an opportunity to study several aspects of cinema in an organized, in-depth manner. Because it is an interdisciplinary minor, it will allow students to examine film from a variety of perspectives. Completing this minor will give students a strong background in media history and literacy and in the critical analysis of film.

Minor in Legal Studies

Advisor: Dr. Patricia Minter
Email: Patricia.Minter@wku.edu
Cherry Hall, Office 206
Phone: (270) 745-5098
Website: http://www.wku.edu/legal-studies/

Reference Number: 409
Minimum Hours for Minor: 24

The minor in legal studies requires a minimum of 24 semester hours, including 9 required hours: HIST 445, HIST 446, and PS 326. There are 9 hours of restricted electives, with one course from each POD: (POD 1) PHIL 350; JOUR 301 or BCOM 301; or PS 338; (POD 2) GEOG 487, PSY 470, or CRIM 432; and (POD 3) ECON 390, MGT 200, or MGT 301. Students also complete 6 hours of general electives from two different disciplines, chosen from the following: BCOM 301, ECON 390, GEOG 487, HIST 430, JOUR 301, MGT 200, MGT 365, MGT 400, PHIL 321, PHIL 322, PHIL 323, PHIL 350, PHIL 427; PS 220, PS 327, PS 338; PSY 470; RELS 202; CRIM 330, CRIM 332, CRIM 346, CRIM 432, or a three-credit service-learning component in consultation with the program director. Students should consult with the program director for the suggested sequence of studies and for course prerequisites.

Minor in Latin American Studies

Faculty Advisor Geography:
Dr. David Keeling
Environmental Science & Tech Building, Office 401B
Phone: (270) 745-5985
Email: David.Keeling@wku.edu

Faculty Advisor History
Dr. Marc Eagle
Cherry Hall, Office 214B
Phone: (270) 745-7026
Email: Marc.Eagle@wku.edu

Reference Number: 408
Minimum Hours for Minor: 21

The minor in Latin American studies requires a minimum of 21 semester hours. Latin American Society: Past and Present (cross-listed as GEOG 200, HIST 200, and SPAN 200) is required of students taking the minor. At least three departments must be represented among the remaining 18 hours. Completion of one year of college Spanish or Portuguese or its equivalent is an additional requirement.

Latin American Society: Past and Present. 3 hours. (Required) (equivalent to GEOG 200, HIST 200, and SPAN 200). The course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures. (Colonnade Connections SB course - 21 hours of Foundations and Explorations Courses, or junior status required). Meets Category E General Education requirement for students enrolled with a catalog term prior to Fall 2014.

Approved courses for the Latin American studies minor are: ANTH 340/FLK 340, ANTH 342/FLK 342; GEOG 462; HIST 364, HIST 365, HIST 464, HIST 465; PS 362; SPAN 201, SPAN 202, SPAN 370, SPAN 371, SPAN 375, SPAN 376, SPAN 377, SPAN 470, SPAN 471, SPAN 477, SPAN 478, SPAN 490. Interested students should consult the program advisors. Other courses with Latin American content can be substituted in the minor with the approval of the faculty advisors.

Minor in Asian Studies

Reference Number: 317
Minimum Hours for Minor: 21

Advisor: Dr. Jeffrey Samuels
Cherry Hall, Office 311
Phone: (270) 745-5748
Email: Jeffrey.Samuels@wku.edu
Website: http://www.wku.edu/asianstudies/

Minor in Asian Studies — The minor in Asian studies requires 21 semester hours. Students must pursue one of two tracks — either the track in Asian Religions and Cultures or the South and East Asian track.

Asian Religions and Cultures Track: Students must take the following courses: religion (9 hours) selected from RELS 103, RELS 302, RELS 303, RELS 306, RELS 308, RELS 317, RELS 318, RELS 320; history and politics (6 hours) selected from HIST 110, HIST 370, HIST 460, HIST 461, HIST 462, HIST 471, HIST 472; PS 365, PS 366; and electives (6 hours) selected from ANTH 341/FLK 341; ARBC 101, ARBC 102; ARC 401, ARC 498; ART 407; CHIN 101, CHIN 102; CHNF 101, CHNF 102; ENG 368; GEOG 465, GEOG 467; JAPN 101, JAPN 102; PERF 105; RELS 100, RELS 101, RELS 311, or any course from a previous category. Students must take courses from at least three different departments. At least 12 credit hours must be at the 300-level or above.

East and South Asian Track: Students must take the following courses: culture and history (12 hours from at least three different departments) selected from ANTH 341/FLK 341; ENG 368; HIST 110, HIST 370, HIST 460, HIST 461, HIST 471, HIST 472; PERF 105 (may be taken up to three times), RELS 103, RELS 302, RELS 303, RELS 306, RELS 308, RELS 311, RELS 317, RELS 318; and 9 hours electives selected from ARBC 101, ARBC 102, ARC 401, 498; CHIN 101, CHIN 102; CHNF 101, CHNF 102; GEOG 465; JAPN 101, JAPN 102; PS 366; RELS 390, RELS 391. Students must take courses from at least four different departments, and at least 12 hours must be at the 300-level or above.

Minor in Russian and East European Studies

Reference Number: 451
Minimum Hours for Minor: 21

Advisor: Dr. Marko Dumančić
Email: Marko.Dumancic@wku.edu
Cherry Hall, Office 200
Phone: (270) 745-3841

This interdisciplinary minor is designed with two main goals in mind. The first is to familiarize students with the most significant political and economic issues facing both Russia and the states of Eastern Europe. The second is to provide students a foundation for effective communication in Russian.

Because of Russia's dominant global role, it is essential that students become familiar with Russia and its language. With Russian being the language of approximately 250 million people, students minoring in REES will study one of the major languages of the world. Furthermore, Russian is recognized as a Critical Language by the US Departments of State and Defense. Fortunately, the language is not as hard as most people think; the alphabet takes less than a week to master. Learning Russian allows students to travel to Russia and witness first-hand the changes taking place in religious, economic, and cultural behaviors. Russian makes an excellent language for those pursuing careers in sociology, anthropology, criminology, political science, international law, geology, journalism, and international business.

Knowledge of East European and Russian societies opens the door to many exciting opportunities. A minor in Russian and East European Studies is not just for translators, diplomats, and teachers. Knowledge of Russia and East Europe can be helpful in landing a job in many fields. Having a REES minor makes any job candidate stand out from the crowd, whatever the field. A REES minor can careers in business, law enforcement, political analysis, work in international aid organizations, natural resource management, and computer science. For those seeking a career in research, Russia and East Europe is a massive field for study in disciplines like Religious Studies, Economics, Sociology, Anthropology, History, Political Science, and more.

The minor requires seven courses, for a total of 21 credit hours. Students minoring in Russian and East European Studies construct their programs of study around two components. The two components are:

Area-Specific Course Requirement:
To complete this requirement, students will complete 9 credit hours from the list of existing approved courses or from related courses that may be added in the future. Approved courses for the Russian and East European studies minor are: HIST 338, HIST 438, PS 367, and PS 369. Courses in this category must represent at least two difference departments.

Russian Language Requirement:
To fulfill this requirement, students will complete Russian language courses at the beginner and intermediate level: RUSS 101, RUSS 102, RUSS 201, and RUSS 202.

Students in the minor are encouraged to participate in study abroad programs in Russia and/or Eastern Europe. By petition, credits earned through study abroad courses can fulfill minor requirements outlined above.

Brewing and Distilling Arts & Sciences Certificate

Advisor: Dr. Andrew McMichael
Email: Andrew.McMichael@wku.edu
Ivan Wilson Center for Fine Arts, Office 200
Phone: (270) 745-6538

Reference Number: 1733
Minimum Hours for Certificate: 12-15

Humans have been brewing alcohol since the dawn of recorded history, and distilling stretches back over a thousand years. Brewing and distilling play a major role in the Kentucky and U.S. economy. Industries as diverse as farming, tourism, construction, and retail all rely on, and contribute to alcohol production.

This multidisciplinary certificate is designed to complement an existing major in a related field, by providing a background understanding of topics related to the brewing and distilling industries−students need to become competitive in the marketplace.

Students will take the following four courses for the certificate: BDAS 300, ENT 312, HIST 341, BDAS 495.

Canadian Studies Certificate

Coordinator: Dr. Eric Reed
Email: Eric.Reed@wku.edu
Cherry Hall, Room 233
Phone: (270) 745-3841

Reference Number: 198
Minimum Hours for Certificate: 12

WKU offers a Canadian Studies Certificate with classes taught by faculty members of participating disciplines (and on the Web by professors at other colleges and universities). The CSC has been designed to encourage the study of Canada in the undergraduate curriculum. The multidisciplinary nature of the CSC accommodates a variety of student interests and provides an opportunity for participants to learn about our neighbors to the north.

Students take a minimum of 12 hours (among the courses listed below) in order to have the CSC listed on their transcripts. Many of these courses may also count toward departmental majors and minors.

Approved courses for the CSC are: HIST 492 (required); AGRI 468; ECON 380; ENG 395 A/B; FREN 427, FREN 445; GEOG 360, GEOG 471; PS 360; HCA 440; MGT 403, MGT 410; MKT 420.

Students should contact the respective departments for information on the frequency of course offerings. They may also arrange independent studies on specific topics in some of these departments.

Kentucky Studies Certificate

Coordinator: Eric Reed
Cherry Hall, Office 233
Phone: (270) 745-3841

Reference Number: 169
Minimum Hours for Certificate: 12

The certificate in Kentucky Studies provides students with the opportunity to study the Commonwealth of Kentucky from multiple perspectives, emphasizing cultural and natural history and resources. It enhances student learning by providing insight into Kentucky life, enriching the understanding of both natives and outsiders and fosters an appreciation for the unique character of the Commonwealth.

The certificate requires a completion of a minimum of 12 semester hours, including 9 hours from core courses and 3 hours from contextual courses.

Required Core Courses (9 hours): HIST 456 – Kentucky History. Select two courses representing different disciplines: ANTH 432- Field Course in Archaeology, ANTH 434 – Graveyard Archaeology, ENG 394 – Kentucky Literature; GEOG 352 – Geography of Kentucky; PS 412- Kentucky Government and Politics.

Select one contextual courses from the following (3 Hours): ANTH 378 – Southern Appalachian Folklife; FLK 281 – Roots of Southern Culture, FLK 378 0 Southern Appalachian Folk Life; HIST 457 – Old South, HIST 458 – New South RELS 330 – Religion in the American South.

Middle East Studies Certificate

Reference Number: 179
Minimum Hours for Certificate: 12

Coordinator: Jeffrey Samuels
Email: Jeffrey.Samuels@wku.edu
Cherry Hall, Office 311
Phone: (270) 745-5748

The Middle East is of great importance to the United States. Ties of history, culture and religion; economic interdependence; and mutual strategic and security interests link the United States to the Middle East. The origins of three of the world's major religions (Judaism, Islam, and Christianity) are found there as well as the majority of the world's oil reserves.

Students who complete at least 12 credit hours of approved coursework will be awarded a certificate in Middle East Studies with designation on their transcript. A certificate in Middle East Studies would supplement, but not supplant, existing major-minor and Colonnade Requirements for undergraduate students. Courses approved for the certificate will be drawn from classes with major Middle East-oriented content offered through a variety of academic departments. Courses currently in the university curriculum which count toward a certificate in Middle East Studies include the following: (Other courses could be added in the future.): HIST 462 History of the Middle East, HIST 404 History of Ancient Egypt; RELS 306 Islamic Religious Traditions, RELS 320 Religions of the Middle East; GEOG 467 Geography of the Middle East; PS 365 Middle East Government and Politics.

All certificate students must take HIST 462 (or the equivalent) and must include courses from at least three different departments to insure a multi-disciplinary perspective. There is no foreign language requirement for the certificate. However, students will be encouraged to study Arabic, to take advantage of study abroad opportunities to the Middle East, and to participate in the Model League of Arab States. Interested students should consult the program advisor.

Gordon Ford College of Business

Grise Hall, Office 445
Phone: (270) 745-6311
Email: gfcb@wku.edu
Website: www.wku.edu/business
Suggested Degree Paths:
http://www.wku.edu/degreepaths/18-19/gfcb.php

Dr. Cathy Carey, Interim Dean
Email: Cathy.Carey@wku.edu

Michelle Trawick, Associate Dean for Faculty and Administration
Email: Michelle.Trawick@wku.edu

Departments

- Accounting
- Economics
- Finance
- Information Systems
- Management
- Marketing

The Gordon Ford College of Business traces its roots to the Bowling Green Business University, founded in 1884 as the Southern Normal School and Business College. In 1907, the Southern Normal School became Western Kentucky State Normal School, and the Bowling Green Business University began a long history of nationally noted programs. In June 1963, Western Kentucky University assumed the business programs of the Bowling Green Business University, and in 1964 the Bowling Green College of Commerce became a division of the University. The name was changed in 1972 to the Bowling Green College of Business and Public Affairs; and following department realignment in 1979, it became the Bowling Green College of Business Administration. To honor the generosity of Gordon B. Ford, the college was renamed the Gordon Ford College of Business in December of 1998, becoming the second named business school in Kentucky. All business programs offered by the College are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

Mission

The mission of the Gordon Ford College of Business is to be a leader in providing high quality, applied undergraduate business education and select graduate programs that meet the needs of the business community.

In fulfilling the college and university missions, and with a balanced emphasis on teaching, research, and service, a highly qualified faculty strives for effective teaching and active student learning. The faculty demonstrate competency through continuous intellectual activity in discipline-based, applied, or instructional research. The currency and relevancy of research and pedagogical activity are supported by active faculty participation with professional associations and initiatives with business, industry, and government organizations.

Baccalaureate programs are designed to build upon a firm liberal arts education with professional theory and applications necessary for creative and rational decision-making in the business world. The Gordon Ford College of Business offers undergraduate majors in Accounting, Business Economics, Business Data Analytics, Economics, Entrepreneurship, Finance, International Business, Management, and Marketing. The Master of Business Administration, Master of Accountancy, and Master of Arts in Applied Economics provide professional education for individuals seeking successful careers and executive leadership positions.

Advising for Gordon Ford College of Business Students

All WKU students must receive advising until they graduate. Professional advisors are available in the Undergraduate Student Services and Advising and Career Development Center (GH 449; 270-745-3290). Besides academic advising the advisors provide assistance with degree requirements, information on study abroad, internship opportunities, and student/professional organizations, and help students locate other campus resources.

Center for Applied Economics

The mission of the Center for Applied Economics (CAE) is to be an outreach of the WKU Department of Economics and Gordon Ford College of Business by serving as an economic information access point for Bowling Green and South Central Kentucky while engaging faculty and graduate students in local area research. Mission objectives are to: collect, condense, and present economic information relevant for Bowling Green and South Central Kentucky; provide a bridge between technical economic research and the community on current, relevant topics; provide experience for graduate students in the application and communication of economic ideas and practices; and provide fee-based economics studies (for example, economic impact studies).

The primary means of achieving this outreach is through the CAE website at http://wkuappliedeconomics.org/ where one can find local area research and data, interactive local data charts, and links to the social networking sites Twitter and Facebook for up-to-date announcements from the Center. Also on the website are articles produced by both faculty and graduate students.

Center for Entrepreneurship and Innovation (CEI)

The CEI assists in the delivery of undergraduate and graduate courses in entrepreneurship and new venture development and management. Specifically, the CEI is dedicated to:

- Making connections *to* and *for* entrepreneurial students.
- Engaging faculty from various disciplines across campus to conduct interdisciplinary research in entrepreneurship.
- Facilitating outreach and networking activities by engaging entrepreneurs to promote an entrepreneurial culture in the region and linking those entrepreneurs with WKU.
- Assisting in finding internship and part-time work opportunities for entrepreneurial students at WKU.

The CEI also serves as a home for the award-winning ENACTUS student organization and the Small Business Institute® professional organization.

Center for Financial Success

The mission of the Center for Financial Success (CFS) is to aid the University and regional community by sharing knowledge and expertise on a wide range of financial planning and literacy topics. The CFS aids constituents in becoming informed, financially independent and responsible members of society through an applied, multi-faceted approach utilizing faculty expertise and service, student involvement and engagement, as well as community and professional partnerships.

Center for Leadership Excellence

As the business culture becomes more global, more sophisticated, and more competitive, the need for insightful and innovative leadership strategies is more important than ever. The Center for Leadership Excellence in the Gordon Ford College of Business at WKU is committed to providing a world-class center for leadership development practices and research information. The Center will move beyond the methods and styles (the what) used by leadership in the past and the present to the reasons behind those successful strategies (the why) and identify contexts and circumstances in which leadership strategies can be most successful.

The Center for Leadership Excellence has developed an innovative workshop format that provides new information for leadership behaviors; novel strategies for practicing leadership; collaborative study of leadership appropriate for multiple venues; national and international forums with prominent leaders as panelists and discussants to share ideas, experiences, and strategies; and situations to encourage and evaluate the work of researchers and collaborators.

Center for Professional Selling

Our Sales Program is one of twenty Fully Certified Sales Programs in the United States as a member of the University Sales Center Alliance (USCA). The WKU Center for Professional Selling is the only certified program in the State of Kentucky, and is a national leader in sales education. This Center was formed by WKU in July 2007 with two specific goals:

1. Education Focus: Enhance the perception of the sales profession while preparing students for a career in sales. Development of appropriate curriculum to include a Major and Minor in Sales.
2. Business Focus: Strengthen the relationship between WKU and Corporations. Develop partnerships with corporations to provide real-world classroom activities in addition to internship or full-time employment opportunities.

Center for the Study of Capitalism

The purpose of the BB&T Center for the Study of Capitalism is to create a comprehensive program of study on the moral foundations of capitalism. It provides resources and learning opportunities to students and the public regarding capitalism's role in society.

Enrollment Policy for Upper-Division Courses

To enroll in upper-division accounting courses, students must have a 2.0 grade point average. To enroll in upper-division business courses other than accounting, students must have a minimum of 60 earned hours and a 2.0 overall grade point average. Enrollment in all upper-division business courses is limited to a maximum of 12 credit hours for students not admitted to one of the baccalaureate programs in the Gordon Ford College of Business. A complete set of regulations concerning enrollment in the Gordon Ford College is available in the Undergraduate Student Services and Academic Advising Center (Grise Hall 449).

Accounting Majors – Students interested in pursuing a major in Accounting must complete ACCT 200 and 201 with a grade of "B" or higher. Accounting students must also earn a grade of "C" or higher for any course serving as a prerequisite for any major required course.

Economics Majors – Economics majors pursuing a Bachelor of Arts degree are not required to take ACCT 200 and ACCT 201.

Gordon Ford College of Business Minors – A student who is not pursuing a major in the college may enroll in upper-division courses leading to a minor in the college provided the student has earned a minimum of 60 semester hours, and met the prerequisites for the course(s).

Appeals and Requests for Exception – Requests for exception to the enrollment and/or admission policies for the Gordon Ford College must be submitted in writing to the Gordon Ford College of Business Admissions and Appeals Committee.

Registration – Under most circumstances, students are approved to register for upper-division courses in the college without making application. Eligible students who experience problems with registration should contact the Undergraduate Student Services and Academic Advising Center (Grise Hall 449).

Transfer Policies

Students pursuing a major in the Gordon Ford College of Business must earn a minimum of one-half of the major in residence at Western Kentucky University.

Students wishing to transfer to Western Kentucky University need to follow Colonnade Program guidelines as listed in the catalog. This strategy should minimize the risk of losing credits toward graduation. Courses that are offered only at the upper-division level at Western Kentucky University should not normally be taken at other schools. Students are advised to consult the Western Kentucky University department chair of their major program or the Undergraduate Student Services and Advising and Career Development Center (Grise Hall 449) regarding the transferability of any upper-division course.

Students who plan to enroll or who are presently enrolled in junior or community colleges who envision transferring to WKU to complete a baccalaureate degree in the Gordon Ford College of Business should follow a program of Colonnade and prerequisite courses similar to the catalog requirements for freshmen and sophomores on the WKU campus. The Gordon Ford College is an active participant in the statewide transfer agreement for business programs for KCTCS students completing the A.A. or A.S. degrees. Students enrolled in the Kentucky Community and Technical College System (KCTCS) should contact their advisor for specific information on transferring courses to the Gordon Ford College of Business and Western Kentucky University.

Introductory courses in accounting (6 hours), economics (6 hours), statistics (3 hours) and an introductory computer course with microcomputer applications (3 hours) taken at accredited schools are readily transferable to Gordon Ford College of Business programs. Courses in linear mathematics (3 hours) and calculus (4 hours) are also generally transferable to Gordon Ford College of Business programs.

Most Bachelor of Science programs in the Gordon Ford College of Business are structured as shown below:

- Colonnade Program – 39 hours,
- Professional core (Includes 6 Colonnade hours) – 42 hours,
- Advanced major and elective courses – 39 hours,
  TOTAL 120 hours

Advanced Professionalism Certificate

Reference Number: 1730
Minimum Hours for Certificate: 12

This certificate focuses on competencies needed for career readiness and professional development for transitioning to the business field, including assessment, exploration, and experiential components. Students must complete the following categories:

- **Category I Self-Management Skills (3 hours):** BA 175 or FIN 161
- **Category II Advanced Communication and Leadership (6 hours; maximum 3 hours for any prefix):** COMM 240, COMM 330, COMM 345*, COMM 348, COMM 362, COMM 460**, COMM 463**; ENG 306, ENG 307; LEAD 330**, LEAD 440**, LEAD 450**; MGT 361, MKT 325.
- **Category III Applied Career Experiences (3 hours):** ACCT 390*, CIS 369*, ECON 490*, FIN 440*, MGT 490*, MKT 490*, BA 490*.
- **Category IV (Students must pass this 0 credit course prior to graduation):** BA 495.

* Each of these courses lists prerequisites that are already required in GFCB undergraduate programs.

**Each of these courses lists prerequisites that could require additional coursework by the student. It is important to note that the prerequisite statement also includes "permission of instructor."

***Students may petition the certificate director to use HON 404 to satisfy Category I.

Department of Accounting

Dr. Harold Little, Chair
Email: Harold.Little@wku.edu

Grise Hall, Office 501
Phone: (270) 745-3895
Email: Acct@wku.edu
Website: www.wku.edu/accounting

Holland Professor: Vacant
Meany Professor: Vacant
Nixon Professor: Y. Chen

Professors: R. Kinnersley, S. Wells
Associate Professors: S. Bibelhauser, M. Lee, H. Little, M. Ross
Assistant Professors: J. Bergner, A. Hunt, M. Simerly
Pedagogical Assistant Professor: K. Barron
Instructor II: S. Henson
Executive-in-Residence: R. Callahan

Mission Statement

The mission of the Department of Accounting at Western Kentucky University is to provide quality accounting education and prepare students for successful and rewarding careers in accounting and business.

The mission is supported by:

- effective teaching.
- applied, pedagogical, and discipline-based research.
- service to the college, the university, the profession, and the business community.

Accounting Program

The accounting department provides a challenging program of study for students who desire to pursue a major in the field of accounting. Students are engaged in unique and enriching learning experiences both inside and outside the classroom. Upon the successful completion of the 120-hour undergraduate program, students are prepared for a rewarding career in public accounting, industry, government, and other business fields.

Transfer Students. Students in community or junior colleges who plan to transfer to Western Kentucky University to complete a baccalaureate degree in accounting should concentrate on courses, which will satisfy Colonnade Program requirements. Credit for accounting or business courses completed at community or junior colleges, except some 200-level courses, will generally not be allowed as part of the Accounting Program.

Students attending four-year schools who wish to transfer to Western Kentucky University should follow a program of Colonnade and prerequisite courses for entry into the Accounting Program. For accounting and business courses offered only at the 300-level and 400-level at Western Kentucky University, a maximum of nine semester hours may be transferred from other four-year schools for credit in the accounting major. Such transfers require the approval of the Western Kentucky University Chair of Accounting. Such courses completed before entering WKU will be accepted for transfer credit as part of the accounting program only if the grade of "C" or better was earned. Students already enrolled at Western Kentucky University should not plan on completing accounting requirements at other institutions.

Pilot Program. Students who successfully complete the high school AICPA Accounting Program for Building the Profession (APBP) and pass the APBP exam will receive three hours of proficiency credit that will meet the prerequisite requirement for Introduction to Accounting – Managerial (ACCT 201). and Intermediate Accounting I (ACCT 300). Contact the department for additional information.

Program of Study: When planning a program of study in this department, students should refer to the suggested Program of Study. Each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter titled "Academic Information." Students are encouraged to contact the Gordon Ford College of Business Undergraduate Student Academic Advising Center and/or the Accounting Department Chair for academic advising and assistance. For career-related information, students should contact the Accounting Department, Center for Career and Professional Development, GFCB Internship Coordinator, or an Accounting faculty member for career mentoring and advising.

Major in Accounting

Reference Number: 602P (seeking admission)
602 (officially admitted)
Minimum Hours for Major: 73

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/gfcb/accounting_602.pdf

***Accounting JUMP**:* https://www.wku.edu/degreepaths/18-19/documents/gfcb/accounting_jump_602.pdf

To gain admission to the Accounting Program, students must have:

1. earned a minimum of 60 hours;
2. completed ACCT 200 and ACCT 201; CIS 141; ECON 202, ECON 203, ECON 206; MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, and COMM 145 with a minimum grade point average of 2.5 in the courses listed above; and
3. a minimum overall GPA of 2.5. Students with lower than a 2.5 grade point average that includes 12 hours of upper-division business courses will be allowed to take only those upper-division courses in the Gordon Ford College of Business they are repeating. Repeating a course will not be considered to violate the enrollment policy restricting upper-division courses to 12 hours before admission.

All students desiring to major in accounting must complete the following courses:

Accounting: ACCT 200, ACCT 201, ACCT 300, ACCT 301, ACCT 303, ACCT 310, ACCT 312, ACCT 430, ACCT 450, ACCT 499, and six hours of accounting electives from the following list: ACCT 401, ACCT 402, ACCT 410, ACCT 420, ACCT 431, and ACCT 451.

College: CIS 141, ECON 202, ECON 203, ECON 206, CIS 243, MGT 200, MGT 210, MGT 313 or ECON 306 or ECON 307, MKT 220, MGT 314, FIN 330 and MGT 498. Three hours of professional or accounting electives should be selected from COMM 345, ENG 306, and all upper-division courses offered in the Gordon Ford College of Business **except** ACCT 330, BA 490, CIS 369, ECON 490, ENT 490, FIN 449, MGT 490, and MKT 490.

Any students seeking to enroll in ACCT 300 must have completed ACCT 200 with a grade of "B" or better. A student seeking to enroll in ACCT 301 and/or ACCT 310 must have completed ACCT 200 and ACCT 201 with grades of "B" or better. Except for ACCT 300, ACCT 301, and ACCT 310, students must be admitted to the Accounting Program to enroll in upper-level accounting courses. Accounting majors must earn a grade of "C" or better in ACCT 300, ACCT 301, ACCT 303, ACCT 310, and ACCT 312 and other courses when used as prerequisites for succeeding courses. For example, an accounting major must earn at least the grade of "C" in ACCT 300 before enrolling in ACCT 301. Also, accounting majors are allowed to repeat an upper-division accounting course only once, even if they received a "W" on the first attempt. Exceptions to this policy will be considered only in extenuating circumstances. All students must take two accounting electives and one approved accounting or business elective.

Pursuing a Second Degree in Accounting

Individuals who have already received a college degree have the opportunity of enrolling in WKU to pursue a degree in accounting.

Students with a first degree in the area of business should be able to complete the Bachelor of Science degree in accounting with approximately 30 additional hours. Those individuals without previous courses in business tend to need a higher number of hours to complete the second degree.

Admission requires the completion of certain pre-professional courses and the attainment of a grade point average (GPA) of at least 2.5 in those courses.

Second baccalaureate degree candidates are exempt from the Western Kentucky University Colonnade requirements. Accounting students must, however, complete the math requirement and an approved speech course, either in previous college work or as a part of the proposed course of study.

Only those accounting and professional business courses completed within five years of the time that the student enrolls for the second degree in accounting will be accepted. The business environment is ever changing. Subject matter taken in courses completed several years ago likely has either been forgotten or is not currently relevant.

The decision to accept coursework toward the second degree rests with the Accounting Department Chair. The prospective candidate for the second degree should contact the Chair of Accounting to schedule a meeting to evaluate their situation, to develop a program of study, and to obtain an estimate of the time necessary to complete the second degree in accounting.

Accounting JUMP Program − The Accounting Joint Undergraduate and Master Program (JUMP) allows students to take both undergraduate and graduate courses concurrently. The student who meets the eligibility requirements and successfully pursues and completes the Accounting JUMP program will earn two degrees: A Bachelor of Science in Accounting degree and a Master of Accountancy (MAcc) degree.

To be eligible for the Accounting JUMP Program, students must (1) file a Statement of Intent with the Department of Accounting; (2) complete ACCT 300, ACCT 301, ACCT 310, and ACCT 312; and (3) have a minimum GPA of 3.25 (4.0 scale) in ACCT 300, ACCT 301, ACCT 310, and ACCT 312 with a minimum grade of C in each course. These minimum requirements establish eligibility for admission, but do not guarantee acceptance into the program.

Students accepted into the Accounting JUMP Program, may have one of the required undergraduate accounting electives waived. In addition, the GMAT requirement for admission to the WKU Graduate School will be waived. For more information, please contact Dr. Steve Wells, Director of the MAcc Program, or Mrs. Sheri Henson, Coordinator of the Accounting JUMP Program, via email or at 270-745-3895. For additional information concerning the Master of Accountancy program, please visit the Graduate Catalog: http://www.wku.edu/graduate/.

Department of Economics

Dr. Alex Lebedinsky, Chair
Email: Alex.Lebedinsky@wku.edu

Grise Hall, Office 431
Phone: (270) 745-2249; Fax: (270) 745-3190
Email: ECON@wku.edu
Website: www.wku.edu/economics

Professors: C. Carey, B. Goff, Y. Kim, A. Lebedinsky, B. Strow, C. Strow, M. Trawick, D. Wilson, D. Zimmer
Associate Professor: S. Leguizamon
Assistant Professors: C. Biolsi, J. Byl, J. Leguizamon, S. Locke
Professors Emeriti: M. Borland, B. Davis, T. Noser, C. Roberts
Transitional Retirees: D. Myers, R. Pulsinelli

Mission Statement

The primary mission of the economics program is to offer educational opportunities to students in order to prepare them to become accomplished citizens and professionals capable of critical thinking and independent analysis. The economics faculty places an emphasis on excellence in teaching and continuous professional development in applied, instructional and basic research. The department also recognizes the importance of conducting professionally relevant service activities for the university, the public, and private constituents at the local, state and national levels.

Economics is an integral part of a well-rounded liberal arts education because the study of economics provides an antecedent to ethical judgments, to the assessment of the full range of both past and present public policies, and to an understanding of other economies and cultures. Economics is a versatile, multifaceted subject that includes global dimensions that are of increasing importance in today's diverse society.

The program also recognizes the importance of economic science in the preparation of a wide variety of professionals including those in business, law, journalism, banking, government, and academia. The faculty acknowledges the importance of communication and technical skills in the development of well-rounded students. Economics courses require the application of the appropriate verbal and writing skills that are crucial complements to analytical skills. The economics curriculum and course offerings are designed to highlight and illustrate the practical importance of a knowledge of economics in understanding today's local, national and global issues.

Economics

Economics is a discipline concerned with how society chooses to allocate scarce resources among alternative uses in order to produce and distribute private and public goods.

The programs and course offerings are designed to provide a basic understanding of economic concepts, institutions, processes, and problems; to foster critical and analytical methods of thinking; and to lay the foundation for further study of economics. The economics department offers three program options: AB in Economics, BS in Business Economics, and BS in Mathematical Economics.

The AB in Economics (reference number 638) provides a variety of courses and programs to fit students' needs and interests. Students combine their work in economics with study in other fields such as business, communication, and computer science. Many other combinations are also available. These options allow a high degree of flexibility in choosing alternative areas of study.

The BS in Business Economics (reference number 724) is a major in specialized business economics. The business economics major combines courses in economics with those in accounting, finance, information systems, management, marketing, and quantitative business analysis. This unique array of courses provides the student with both the general and specific skills desired by employers.

The BS in Mathematical Economics (reference number 731) is designed for students wishing to pursue a graduate degree in economics, a highly applied, analytical occupation or a career as an actuary.

The general track in the BS in Mathematical Economics strongly recommended for students considering either a PhD in Economics or highly applied, analytical occupations. Students should note that economic doctoral programs are highly mathematical. An alternative path would be a math minor in conjunction with either the AB in Economics or the BS in Business Economics. A WKU minor in mathematics (reference number 417) requires a minimum of 17 semester hours.

To obtain a math minor, the student must take the foundational sequence (MATH 136, MATH 137, MATH 307). The student is also required to select two additional math classes. The two classes that would best prepare a student for graduate studies in economics are MATH 237 and MATH 331.

The actuarial science track in the BS in Mathematical Economics is strongly recommended for students pursuing careers as actuaries. Actuaries use a combination of strong analytical skills, business knowledge and an understanding of human behavior to manage risk. To become an actuary, students must pass a series of exams to earn actuarial designation by either the Casualty Actuarial Society (CAS) or the Society of Actuaries (SOA). With the track in actuarial science as part of a mathematical economics major, students will take courses that provide them the best chance of success on the first two actuarial exams. In addition, students can apply to receive Validation by Educational Experience (VEE) credit from either the CAS or SOA in the areas of Applied Statistics, Economics, and Corporate Finance, obtained through approved course sequences.

Each year, the economics program awards the C. Keith Davis Memorial, N.O. Taff, Kenneth T. & Maria Cann and Steve and Donna Lile Scholarships. The recipients must be in one of the majors offered by the Economics Department and selection is made on the basis of academic performance. Faculty also select a junior and a graduating senior economics, business economics, or mathematical economics major whose outstanding performances merit their selection as the Outstanding Junior and Outstanding Senior in Economics. Additionally, economics majors participate in the “Best Papers in Economics” competition for annual awards.

When planning a program of study in the economics department, each student should be aware of the University’s academic requirements and regulations contained in this catalog in the chapter “Academic Information.” Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) General Education Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may have additional scholastic requirements and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

Major in Economics

Program Coordinator: A. Lebedinsky

Reference Number: 638P (seeking admission)
638 (officially admitted)

Minimum Hours for Degree: 120

Degree: Bachelor of Arts

Minimum Hours for Major: 36

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/gfcb/economics_638.pdf

The major in economics requires a total of 120 credit hours of coursework with 37 hours in economics and leads to a Bachelor of Arts degree. The program requires completion of a second major or a minor. All majors must complete a 19-hour core composed of ECON 202, ECON 203, ECON 206, ECON 302, ECON 303, ECON 465 or ECON 480, and ECON 499. The remaining 12 hours for completing the major may be selected from other 300 and 400 level economics courses. In addition, students must complete CIS 141, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, and COMM 145.

Admission to the economics major requires (1) the completion of MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, ECON 202, ECON 203, and ECON 206 and CIS 141 with a minimum GPA of 2.0 in the courses listed; and (2) completion of a minimum of 60 semester hours with a minimum GPA of 2.0; and (3) completion of a minimum of 12 hours at Western Kentucky University with a minimum WKU GPA of 2.0. All economics majors will be required to participate in an assessment process prior to graduation (ECON 499, 1 hour).

Major in Business Economics

Program Coordinator: A. Lebedinsky

Reference Number: 724P (seeking admission)
724 (officially admitted)
Minimum Hours for Major: 76

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/gfcb/business_economics_724.pdf

The major in business economics requires a total of 120 credit hours with 76 hours in professional and elective courses and leads to a Bachelor of Science degree. Business economics majors must complete the Gordon Ford College of Business core consisting of ACCT 200 and ACCT 201, CIS 141, ECON 202, ECON 203, and ECON 206, COMM 145, CIS 243, FIN 330, MGT 200, MGT 210, MGT 314, and MGT 498, and MKT 220. Required courses in economics include: ECON 302, ECON 303, ECON 306 or ECON 307, ECON 414, and ECON 499; and either ECON 465 or ECON 480; fifteen hours of economics courses; and an approved 3-hour upper-division business elective. No minor or second major is required.

Business economics majors should refer to the Gordon Ford College of Business introductory section for sample course schedules for the freshman and sophomore years. That section also outlines the requirements for being formally admitted to the Gordon Ford College of Business, a condition which students must satisfy before they will be permitted to enroll in 300-level and 400-level professional courses. All economics majors will be required to participate in an assessment process prior to graduation (ECON 499, 1 hour).

To gain admission to the Business Economics Program, students must have:

1. earned a minimum of 60 hours;
2. completed ACCT 220 and ACCT 201, CIS 141, ECON 202, ECON 203, and ECON 206, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610 and COMM 145 with a minimum grade point average of 2.5 in the courses listed above; and
3. earned a minimum overall GPA of 2.5.

Major in Mathematical Economics

Reference Number: 731P (seeking admission)
731 (officially admitted)
Minimum Hours for Major: 49 / 61

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Actuarial Science: http://wku.edu/degreepaths/18-19/documents/gfcb/math_econ_actuary_731.pdf
General Mathematical Economics: http://wku.edu/degreepaths/18-19/documents/gfcb/math_econ_gen_731.pdf

The major in Mathematical Economics requires a total of 120 credit hours with a core of 18 hours in economics, 15 hours in mathematics, and 1 hour of an interdisciplinary seminar course. The concentration in general mathematical economics requires an additional 9 hours in economics and 6 hours in mathematics. The concentration in actuarial science requires an additional 3 hours in economics, 9 hours in mathematics, 12 hours in finance, and 3-4 hours in computer science. This major leads to a Bachelor of Science degree intended for students interested in graduate studies in economics, public policy, or business, as well as those students seeking a career as an actuary or analytical careers that will require extensive mathematics backgrounds.

The program of study does not require completion of a second major or minor.

All majors must complete a 34-hour core consisting of ECON 202, ECON 203, ECON 206 (or STAT 301), ECON 302, ECON 303, ECON 465 or ECON 480 or STAT 401; MATH 136, MATH 137, MATH 237, MATH 307; and ECON 497 or MATH 497. Additionally, majors must choose a concentration in either General Mathematical Economics or Actuarial Science. Majors in the General Mathematical Economics concentration must complete ECON 306 or ECON 307, ECON 464, and 3 hours of 300-and 400-level economics electives. Additionally, either MATH 331 or MATH 310 must be completed, and students must take three additional hours from either MATH 331, MATH 310, MATH 305, MATH 382, MATH 435, or MATH 405. Majors in the Actuarial Science concentration must complete ECON 307; MATH 310, MATH 382, and MATH 482; FIN 330, FIN 332, FIN 350, and FIN 437; and CS 170 or CS 180.

Admission to the mathematical economics major requires (1) the completion of MATH 136, ECON 202 and ECON 203, and ECON 206 or STAT 301 with a minimum GPA of 2.0 in the courses listed; and (2) completion of a minimum of 60 hours with a minimum GPA of 2.0 overall; and (3) completion of a minimum of 12 hours at Western Kentucky University with a minimum WKU GPA of 2.0. All mathematical economics majors will be required to enroll in an interdisciplinary senior seminar course prior to graduation (ECON 497 or MATH 497, 1 hour).

Economics JUMP Program (Joint Undergraduate – Master Degree Program): Accelerated Masters in Applied Economics − Under certain conditions, undergraduate students majoring in any economics degree may qualify for the Economics JUMP program. This is an accelerated master program that allows students majoring in economics to take up to 12 hours in approved graduate level courses as an undergraduate student and apply those courses jointly to both their undergraduate and graduate degree programs. This leads to the completion of both the baccalaureate and graduate degrees in as few as 138 hours. For more information, visit www.wku.edu/mae.

Minor in Economics

Program Coordinator: A.Lebedinsky

Reference Number: 356
Minimum Hours for Minor: 21

The minor in Economics requires 21 semester hours. All minors must complete a 15-hour core composed of ECON 202, ECON 203, ECON 206, ECON 302, and ECON 303. The remaining 6 hours for completing the minor must be selected from other 300 and 400 level economics courses. All minors must also complete MATH 116 or higher. The remainder of the program depends on what other major or minor is pursued.

Graduate Program − The Economics Department offers a *one-year* graduate program leading to a Master of Arts in Applied Economics (reference number 0410). The program is designed to prepare students for private and public sector employment requiring analytical and communication skills sufficient for independent investigation and report writing. There are opportunities for interdisciplinary study and internships. Graduate assistantships are available. For program information, visit www.wku.edu/mae.

Department of Finance

Dr. Indudeep Chhachhi, Chair
Email: Indudeep.Chhachhi@wku.edu

Grise Hall, Office 334
Phone (270) 745-2018; Fax (270) 745-5284
Email: Finance@wku.edu
Website: www.wku.edu/finance

Page Professor: K. Chan
Professors: C. Brown, K. Chan, I. Chhachhi
Associate Professor: Y. Ling Lo
Assistant Professor: M Mollagholamali
Pedagogical Assistant Professors: A. Head, R. Rhoades
Instructor II: J. Snavely
Professor Emeritus: E. Wolfe

Mission Statement

The finance program is committed to offering a high quality baccalaureate program in finance with concentrations in financial management and financial planning. The concentrations in finance provide students with not only a broad general educational background but also a thorough professional education in finance. The primary mission of the finance group is teaching and instruction, which is supported by faculty involvement in basic and applied research as well as research that supports the teaching mission.

Major in Finance

Reference Number: 664P (seeking admission)
664 (officially admitted)
Minimum Hours for Major: 73/79

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Business Finance Concentration:
https://www.wku.edu/degreepaths/18-19/documents/gfcb/finance_business_finance_664.pdf

Personal Financial Planning Concentration:
https://www.wku.edu/degreepaths/18-19/documents/gfcb/finance_personal_planning_664.pdf

The undergraduate Finance program offers two areas of concentration within the major: 1) Business Finance and (2) Personal Financial Planning. Finance majors must earn a minimum grade point average of 2.0 in 300 and 400 level finance courses. In addition, finance majors must earn a “C” or better in FIN 330 and FIN 332.

All finance students must complete FIN 300 prior to admission to the finance program. All finance majors will be required to participate in an assessment process in FIN 499 prior to graduation.

The Business Finance concentration requires 73 hours of professional and elective courses and leads to a Bachelor of Science degree. No minor or second major is required or prohibited.

The Business Finance concentration deals with the acquisition and use of funds to maximize the value of the firm. Financial managers make decisions about alternative sources and uses of funds. Proper financial management within the firm will help the business to provide better products at reasonable prices to its customers and greater returns to the investors who supply the capital needed to form and then operate the business. Students must take the following courses: ACCT 200, ACCT 201, CIS 141, CIS 243, ECON 202, ECON 203, ECON 206, FIN 300, FIN 330, MKT 220, MGT 200, MGT 210, MGT 314, ENT 496 or MGT 498, ECON 307, FIN 332, FIN 433, FIN 436, FIN 437, FIN 438, FIN 439 or FIN 449, and FIN 499. Students must take 3 additional hours from either FIN 435 or MKT 323, MKT 325 or ACCT 300, ACCT 330, ACCT 430, ACCT 440. In addition, students must take 6 hours of upper level finance electives as well as an additional 3 hours of business electives.

The Personal Financial Planning concentration requires 79 hours of professional and elective courses and leads to a Bachelor of Science degree. The personal financial planning concentration deals with the process of developing comprehensive financial plans for individuals. Financial planners help individuals determine financial goals and objectives and the best strategies for obtaining these goals. The rapid growth of multi-income families in the U.S. has placed more and more people in a position of need to apply sophisticated financial planning techniques to their personal economic affairs.

As a result, one of the fastest growing career paths in the financial services industry is financial planning, and the Certified Financial Planner™ (CFP) ® designation has become the most widely recognized financial planning credential among consumers.

The financial planning concentration is registered with the Certified Financial Planner Board of Standards in Washington D.C. We are one of only three registered universities in the state of Kentucky! This registration confers a special advantage on our graduates. Upon completion of our CFP® board certified program, students are allowed to sit for the CFP® Certification Examination.

Western Kentucky University does not certify individuals to use the CFP®, Certified Financial Planner™, and CFP® (with flame logo) certification marks. The CFP certification is granted only by the Certified Financial Planner Board of Standards to those persons who, in addition to completing an educational requirement such as this CFP Board-Registered Program, have met its ethics, experience, and examination requirements.

The Certified Financial Planner Board of Standards Inc. owns the marks CFP®, Certified Financial Planner™, and CFP® (with flame logo) which it awards to individuals who successfully complete initial and ongoing certification requirements.

Students must take the following classes: ACCT 200, ACCT 201, CIS 141, CIS 243, ECON 202, ECON 203, ECON 206, FIN 300, FIN 330, MKT 220, MGT 200, MGT 210, MGT 314, ENT 496 or MGT 498, ECON 307, ACCT 330, FIN 331, FIN 332, FIN 350, FIN 400, FIN 401, FIN 437, FIN 438, FIN 444, FIN 445, FIN 450, FIN 439 or FIN 449, and FIN 499. In addition, students must take 3 hours of upper level finance electives.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

Students majoring in a program in this department may refer to the Gordon Ford College of Business introductory section for sample course schedules for the freshman and sophomore years.

To gain admission to the Finance Program, student must have:

1. earned a minimum of 60 hours;
2. completed ACCT 200 and ACCT 201, CIS 141, ECON 202, ECON 203, and ECON 206, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, FIN 300 and COMM 145 with a minimum grade point average of 2.5 in the courses listed above;
3. a minimum overall GPA of 2.5
4. Students with lower than a 2.5 grade point average that includes 12 hours of upper-division business courses will be allowed to take only those upper-division courses in the Gordon Ford College of Business they are repeating. Repeating a course will not be considered to violate the enrollment policy restricting upper-division courses to 12 hours prior to admission.

Minor in Finance

Reference Number: 357
Minimum Hours for Minor: 27

The minor in finance requires 27 semester hours of coursework. The minor in finance requires FIN 330 and 12 hours of approved finance electives from any 300 or 400 level finance courses. As preparation for this minor, students must also complete MATH 116 and ECON 202 or ECON 203, ECON 206 and ACCT 200.

Financial Planning Certificate

Reference Number: 200
Minimum Hours for Certificate: 24

The certificate program in Financial Planning requires 24 semester hours and is intended to qualify non-finance majors or degree-holding individuals who wish to pursue a career in financial planning. After successful completion of the following eight courses, the student receives a Certificate of Financial Planning from Western Kentucky University and fulfills the educational requirement to sit for the comprehensive CERTIFIED FINANCIAL PLANNER® (CFP®) exam. Required courses are: ACCT 330, FIN 330, FIN 331, FIN 332, FIN 350, FIN 444, FIN 445, and FIN 450. There may be additional course requirements for students not meeting pre-requisites.

Western Kentucky University does not certify individuals to use the CFP®, Certified Financial Planner™, and CFP (with flame logo)®, certification marks. The CFP certification is granted only by the Certified Financial Planner Board of Standards to those persons who, in addition to completing an educational requirement such as this CFP Board-Registered Program, have met its ethics, experience, and examination requirements.

Certified Financial Planner Board of Standards Inc. owns the marks CFP®, Certified Financial Planner™, and CFP (with flame logo)®, which it awards to individuals who successfully complete initial and ongoing certification requirements.

Department of Information Systems

Dr. Ray Blankenship, Chair
Email: Ray.Blankenship@wku.edu

Grise Hall, Office 200
Phone: (270) 745-5408; Fax: (270) 745-6376

Department Website:
www.wku.edu/information-systems

Business Data Analytics Website: www.wku.edu/bdan

Professor: R. Blankenship
Associate Professors: K. Atkinson, J. Butterfield, M. Ciampa, P. Coleman, T. Crews, Jr., E. Thrasher, L. Zhuhadar
Instructor II: J. Lindsey
Instructor I: J. Willis

The field of business data analytics explores the interplays between technology, business, and society. Business data analytics utilizes information management tools for the processing, management, and analysis of data that relates to business. Graduates in Business Data Analytics serve as a bridge between the builders and users of technology and global innovations. Occupations in this field include Business Analyst, Customer Intelligence Analyst, Database Administrator, and Healthcare Analyst.

The IS Department at WKU offers several professionally-focused programs that prepare students for these, and many other, dynamic opportunities: Business Data Analytics (BDAN), Applied Data Analytics Certificate, Minor in Computer Information Systems.

Overview of Computing Facilities

Western Kentucky University maintains a number of general-purpose computing labs across campus with a computer-to-student ratio that is among the highest of all state universities. In addition, the Information Systems department offers extensive hands-on learning opportunities through its own computer-enhanced instructional classrooms, computer labs, and many web-enabled courses. These resources are available at WKU's main and regional campuses. These resources allow BDAN students to make use of the latest hardware and software technologies in their major courses. This unique blend of classroom instruction and hands-on experience helps to prepare our graduates for professional success.

Major in Business Data Analytics

Program Coordinator: R. Blankenship

Reference Number: 504P (seeking admission)
504 (officially admitted)
Minimum Hours for Major: 72

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/gfcb/business_data_analytics_504.pdf

The Business Data Analytics major requires 72 semester hours and is designed to prepare students for professional careers using a data analytics focused approach to control, support, and enhance business operations and functions. Global business is increasingly relying on the acquisition, deployment, and management of information systems and services for use in organizational processes which is resulting in an increasing need for information workers. The business data analytics major will provide students with a solid business foundation combined with relevant study of modern technology trends and the impact information systems are having throughout business and society. As demand for computer and information processing services continues to increase, so does the need for hybrid business technology roles. This major will help strengthen the knowledge economy in Kentucky and increase the availability of information workers critical to attracting and retaining corporate interests in the state.

All students must take the following 45 hours of business core courses: MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610; ACCT 200, ACCT 201; CIS 141; ECON 202, ECON 203, ECON 206; CIS 243; FIN 330; MKT 220; MGT 200, MGT 210, MGT 314, MGT 498 or ENT 496; ECON 306 or MGT 313. Students are required to meet all admission requirements for the Gordon Ford College of Business.

Students must take the following 27 hours including 18 hours of Business Data Analytics core courses selected from BDAN 310, BDAN 330, BDAN 410, BDAN 420, BDAN 430 and 9 hours of approved business and technology electives.

To gain admission to the Business Data Analytics Program, students must have:

1. earned a minimum of 60 hours;
2. completed ACCT 200 and ACCT 201, CIS 141, ECON 202, ECON 203, and ECON 206, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, and COMM 145;
3. earned an overall WKU GPA of 2.5 or above;
4. achieved a GPA of 2.5 or above in the following six classes: ACCT 201, CIS 141, ECON 203, ECON 206, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, and COMM 145.

Students with lower than a 2.5 grade point average that includes 12 hours of upper-division business courses will be allowed to take only those upper-division courses in the Gordon Ford College of Business they are repeating. Repeating a course will not be considered to violate the enrollment policy restricting upper division courses to 12 hours prior to admission.

Minor in Computer Information Systems

Program Coordinator: R. Blankenship

Reference Number: 347
Minimum Hours for Minor: 18

The CIS minor has been specifically designed for non-technical majors who want to learn more about how technology can improve their personal and professional productivity. Students in the CIS minor take a set of required and elective courses in areas such as web-design, desktop publishing, multi-media, computer graphics, geographic information systems, computer-aided drafting and digital video production. Almost all professions today require their employees to be proficient with computers–not just 'literate.' The CIS minor is a valuable addition to any WKU major.

The minor in computer information systems requires 18 semester hours. Required courses are CIS 141, CIS 243, CIS 320, CIS 321, and two approved electives. Approved electives include: CIS 226, AMS 163, AMS 205, CS 180, ART 231, BCOM 264, GISC 317 and ART 435. No more than three hours of electives may be used to fulfill other degree requirements. Students with a minor in computer information systems receive a 3-hour waiver in upper-division coursework in the minor. See the department about other elective options.

Applied Data Analytics Certificate

Program Coordinator: R. Blankenship

Reference Number: 1734
Minimum Hours for Certificate: 18

The certificate of Applied Data Analytics exposes students to how data is acquired, how to frame an analytic problem, determine which methodologies to use to solve a problem, and to build deployable models.

The 18 hour certificate is based on 12 hours of core courses and 6 hours of advisor approved upper division courses. The approved electives may be from the Gordon Ford College of Business or any other college.

Approved Required Courses are: (12 hours) CIS 243, ECON 206, BDAN 310, and BDAN 330.

Electives: (6 hours) Courses in this area may include additional Business Data Analytics courses or departmental advisor approved electives. Approved electives would be those courses that have a strong data analysis focus. Examples would include: ECON 465, MKT 421, GISC 317.

Department of Management

Dr. Paula W. Potter, Chair
Email: Paula.Potter@wku.edu

Grise Hall, Office 200
Phone: (270) 745-5408, Fax: (270) 745-6376
Email: MGT@wku.edu
Website: www.wku.edu/management

Vitale Professor in Entrepreneurship: Dr. Whitney Peake
Mattie Newman Ford Faculty Fellow: Dr. Paula Potter
Professors: R. Hatfield, J. Katz, P. Potter, A. Rahim, S. Spiller
Associate Professors: I Civelek, L. Coder, W. Peake
Assistant Professors: S. Cox, H. Liang, M. Yates
Pedagogical Assistant Professors: D. Cosby, A. Daniels
Visiting Assistant Professor: P. deOliveira
Executive-in-Residence: K. Schell
Transitional Retirees: D. Bolton, B. Sullivan, R. Reber

Mission Statement: "Learning by Doing"

This phrase succinctly summarizes the mission of the Management Department. It is espoused by our diverse group whose interests and responsibilities include general management, strategic management, entrepreneurship, human resource management, organizational theory and behavior, production and operations management, management science, international business and the legal environment of business.

While we instruct a heterogeneous student population comprised of majors within the department, within the college, and from other areas; there is a major emphasis on experiential learning. We further endeavor to expose students to the latest developments in technology, global perspectives, ethics, and changes in the legal and business environment. We seek to produce graduates who have a strong foundation in management with the necessary analytical skills to assume leadership roles in business and society. With such a background, our graduates pursue careers in a variety of fields including banking, construction, insurance, manufacturing, public administration, retailing, and entrepreneurship.

"Learning by doing" also applies to the scholarly activity of our faculty in meeting the goal of ensuring a high quality faculty and staff. A variety of scholarly activities conducted by the Management faculty include basic, applied, pedagogical, cross-disciplinary, and interpretive research. It is the expectation that all research should enhance teaching, service, or add to the knowledge base of the discipline.

Major in Management

Reference Number: 723P (seeking admission)
723 (officially admitted)
Minimum Hours for Major: 73

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Business Administration:
https://www.wku.edu/degreepaths/18-19/documents/gfcb/management_business_administration_723.pdf

Human Resources/Personnel Management:
https://www.wku.edu/degreepaths/18-19/documents/gfcb/management_human_resources_723.pdf

The undergraduate major in Management requires 73 hours of professional and elective courses and leads to a Bachelor of Science degree. No minor is required, although approved minors inside or outside the Gordon Ford College of Business are encouraged. The undergraduate management program offers two areas of concentration within the major: 1) Business Administration, and 2) Human Resource/Personnel Management. This allows students to choose a program of study that fits well with their career aspirations.

The Business Administration concentration develops student's abilities to analyze and to manage a wide range of business situations. This development occurs by building on fundamental business functions studied in the core courses. The program is for students who intend to manage an independent business or a unit of a larger organization and who want a broad curriculum.

Students must take the following courses: ACCT 200, ACCT 201, CIS 141, ECON 202, ECON 203, ECON 206, CIS 243, FIN 330, MKT 220, MGT 200, MGT 210, MGT 313, MGT 314, ENT 496 or MGT 498, MGT 311, MGT 361 (or ENG 306 or 307), MGT 305 or MATH 119, MGT 417, ECON 414, and MGT 499. Students must take one of the following courses: BDAN 310, BDAN 320, BDAN 330, BDAN 410, BDAN 420, BDAN 430, or any 300- or 400- level business course. Students must also take a 3-hour, upper-level management elective, finance elective, and marketing elective for a total of 9 hours. In addition, students must take 3 hours of professional electives chosen from any upper-level course offered in the Gordon Ford College of Business.

The Human Resource Management concentration is designed to develop skills for managing an essential resource of any organization—its employees. Because of the importance of increasing human productivity, human resource management is viewed as a key contributor to organizational effectiveness and achievement of strategic goals. Human resources managers are frequently involved in top-level decision making. The Society for Human Resource Management (SHRM) acknowledges that our HR curriculum aligns with its guidelines. We are one of only a few dozen U.S. universities with this recognition. Students must take the following courses: ACCT 200, ACCT 201, CIS 141, ECON 202, ECON 203, ECON 206, CIS 243, FIN 330, MKT 220, MGT 200, MGT 210, MGT 313, MGT 314, ENT 496 or MGT 498, MGT 311, MGT 361 (or ENG 306 or 307), MGT 305 or MATH 119, MGT 417, MGT 411, MGT 414, MGT 473, MGT 495, MGT 499, ECON 305; and an elective from MGT 383, MGT 400, MGT 413, MGT 416, MGT 419, or another department chair-approved elective. The HRM concentration is designed to prepare students for a rewarding career as a specialist in an area such as recruitment and selection, training and development, compensation and benefits administration, or labor relations.

To gain admission to the Gordon Ford College Management program, students must have:

1. earned a minimum of 60 hours;
2. completed ACCT 200 and 201, CIS 141, ECON 202, 203, and 206, MGT 210, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, and COMM 145.
3. earned a minimum overall GPA of 2.5;
4. earned a minimum GPA of 2.5 in the following courses: ACCT 200, ECON 202, ECON 206, CIS 141, COMM 145, and MGT 210 (must have a “C” or better).

Major in Entrepreneurship

Reference Number: 542P (seeking admission)
542 (officially admitted)
Minimum Hours for Major: 70

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/gfcb/entrepreneurship_542.pdf

The major in Entrepreneurship requires 70 hours of professional and elective courses and leads to a Bachelor of Science degree. The entrepreneurship program is designed to provide maximum flexibility in the integration of coursework and actual experience to develop entrepreneurial potential and to provide the opportunity to turn that capability into reality.

Coursework and practical experiences allow the student to apply principles of innovative thought, idea generation, market development, financial analysis, legal and ethical compliance, and human resource development. Students are prepared to start and develop a new venture, to immediately contribute to the growth and expansion of the fast-growth firm, to be leaders in social or non-profit activities, and to be corporate “intrapreneurs” if employed in larger firms. Students must take the following required courses for the major: ACCT 200, ACCT 201, CIS 141, ECON 202, ECON 203, ECON 206, CIS 243, FIN 330, MKT 220, MGT 200, MGT 210, MGT 313, MGT 314, ENT 496, MGT 305 or MATH 119, ENT 312, FIN 441, MKT 427, ENT 380. Students must also select six hours of entrepreneurship electives from any 300- or 400-level entrepreneurship course. In addition, two courses must be selected and approved by the Management Department Chair that customizes the entrepreneurial interest area of the student. These two courses may come from the following list; however, the courses could also be from any discipline on campus that strengthens that student’s specific interest in entrepreneurship: ECON 414, MKT 323, MKT 325, MKT 328, MKT 329, MGT 311, MGT 333. Students also must complete one hour of MGT 499.

To gain admission to the Entrepreneurship program, students must have:

1. earned a minimum of 60 hours;
2. completed ACCT 200 and 201, CIS 141, ECON 202, ECON 203, and ECON 206, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, MGT 210, and COMM 145;
3. earned a minimum overall GPA of 2.5;
4. earned a minimum GPA of 2.5 in the following courses: ACCT 200, ECON 202, ECON 206, CIS 141, COMM 145, and MGT 210 (must have a “C” or better).

Major in International Business

Reference Number: 569P (seeking admission)
569 (officially admitted)
Minimum Hours for Major: 73

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/gfcb/international_business_569.pdf

The International Business major requires 73 hours of professional and elective courses and leads to a Bachelor of Science degree.

The objective of the international business (IB) major is to prepare students to succeed in the increasingly competitive and inter-dependent world of international business. The IB program equips students for global careers by providing sound business skills, geo-political understanding, language skills, and cultural and value awareness of other regions. The IB graduate may pursue advanced study in international business/international MBA programs, gain entry level positions in firms with existing international operations, engage in entrepreneurial opportunities with domestic firms wishing to expand internationally, and work with governmental and/or non-governmental organizations whose objective is to provide international trade support or economic development. Available as a primary or secondary major, the IB major combines courses in international management, marketing, economics, finance, and entrepreneurship with foreign-language study. Students are required to do an internship in a firm engaged in international business or participate in study abroad.

Students must take the following required courses for the major: ACCT 200, ACCT 201, ECON 202, ECON 203, ECON 206, CIS 141, CIS 243, FIN 330, MKT 220, MGT 200, MGT 210, MGT 314, MGT 316, MGT 498 or ENT 496, MGT 313, MGT 303, and MGT 499. Three hours must be selected as a cultural component from the following: CHIN 333, CHNF 430, CSJ 380, COMM 463, FREN 323, GEOG 462, GEOG 465, GEOG 466, GEOG 467, GERM 333, SOCL 363, SOCL 376, SPAN 372, or SPAN 373. Three hours of foreign language must be selected from: ARBC 102, CHIN 102, CHNF 102, FREN 102, GERM 102, JAPN 102, RUSS 102, SPAN 102. Another three hours of foreign language must be selected from: ARBC 201, CHIN 201, CHNF 201, FREN 201, GERM 201, JAPN 201, RUSS 201, SPAN 201. A three-hour study abroad course or MGT 490 or MKT 491 is required.

The student must take 12 hours from international business courses from the following tracks:

- International Management: FIN 436, LEAD 450, MGT 305, MGT 383, MGT 413, MGT 495, or PS 350.
- Global Supply Chain: AMS 371, AMS 394, AMS 396, AMS 430, BDAN 310, MKT 324, or MKT 423.
- Global Entrepreneurship: ENT 308, ENT 312, ENT 380, ENT 425, ENT 496, or MGT 390.
- Global Trade and Economy: ECON 380, ECON 385, ECON 430, ECON 467, ECON 496, or PS 449.

To gain admission to the International Business program, students must have:

1. earned a minimum of 60 hours;
2. completed ACCT 200 and 201, CIS 141, ECON 202, 203, and 206, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610, MGT 210, and COMM 145;
3. earned a minimum overall GPA of 2.5;
4. earned a minimum GPA of 2.5 om the following courses: ACCT 200, ECON 202, ECON 206, CIS 141, COMM 145, and MGT 210 (must have a “C” or better).

Minor in Business Administration

Reference Number: 332
Minimum Hours for Minor: 30

The Business Administration minor provides a basic exposure to business for students whose majors are outside the Gordon Ford College of Business. It involves courses from each of the college departments and is administered through the Office of the Dean. Students with a minor in business administration receive a 3-hour waiver in upper-division coursework in the minor.

The minor requires 30 semester hours consisting of: ACCT 200, ECON 202 or ECON 203, CIS 141, MATH 116, FIN 330, MGT 210, MKT 220, 9 hours of upper-level business electives with at least two fields represented. Credits for ECON 202 or ECON 203 and MATH 116 may be applied to the Colonnade Program requirements.

If the student’s major program requires a computer course and/or a course in statistics, the advisor for the business administration minor should be consulted for possible adjustments in the program requirements. The business administration minor is not available to business majors, but it is among the minor programs which are available to the student who is majoring in economics (Bachelor of Arts).

Minor in Entrepreneurship

Reference Number: 355
Minimum Hours for Minor: 21

A minor in Entrepreneurship is an interdisciplinary program housed in the Management Department and coordinated with various departments across campus. It is suitable for those who might want to have their own business or work in an entrepreneurial environment (including large organizations). Students of all majors are encouraged to meet with entrepreneurial advisors to fit the minor to their career interests.

The 12 hours of required core classes are: ECON 150, or ECON 202, or ECON 203, ACCT 200, MKT 220, and ENT 312. Nine hours of electives may be chosen from the following courses or other courses approved with the consent of the department head: any ENT course, FIN 441, MKT 328, MKT 427, WFA 346. *Business majors are required to take ENT 496 as part of their nine hours of electives.*

For business majors, six hours in the entrepreneurship minor must be unduplicated from courses counted in the business major.

Minor in International Business

Reference Number: 333
Minimum Hours for Minor: 24

The International Business minor prepares students to be effective citizens and leaders in a global environment of growing economic interdependence among nations. The program is open to all qualified undergraduates who want to pursue professional positions in both small and large multinational firms.

The minor requires 24 semester hours. The curriculum consists of:

1. 9 hours (6 hours from the same prefix) in a world language must be selected from:

- ARBC 101, ARBC 102, ARBC 201, ARBC 202;
- CHIN 101, CHIN 102, CHIN 201, CHIN 202, CHIN 318, CHIN 418;
- FREN 101, FREN 102, FREN 201, FREN 202, FREN 331;
- GERM 101, GERM 102, GERM 201, GERM 202, GERM 331;
- JAPN 101, JAPN 102, JAPN 201, JAPN 202;
- RUSS 101, RUSS 102, RUSS 201, RUSS 202;
- SPAN 101, SPAN 102, SPAN 201, SPAN 202, SPAN 331

2. 3 hours from the following:

- **Modern History**: HIST 324, HIST 334, HIST 335, HIST 425, HIST 428, HIST 438, HIST 439, HIST 365, HIST 370, HIST 461, HIST 462, HIST 464, HIST 465, HIST 471, HIST 472, HIST 479, HIST 380, HIST 492
- **Political Science**: PS 355, PS 449, PS 360, PS 361, PS 362, PS 363, PS 365, PS 366, PS 367, PS 368, PS 460. *An upper level government course listed under “International Relations” or “Comparative Government and Politics” (courses in the Kentucky Legislative Internship Program are excluded). *
- **Folk Studies**: FLK 340, FLK 341, FLK 342, FLK 350
- **Regional Geography**: GEOG 364, GEOG 462, GEOG 465, GEOG 466, GEOG 467
- **Modern Languages**: ARBC 324, FREN 323, FREN 427, GERM 335, SPAN 372, SPAN 373

3. 12 hours from the Gordon Ford College of Business from the following courses:

- Required Course (3 hours): MGT 303, International Business
- Choose 9 hours from the following Gordon Ford College of Business courses with two fields represented (the courses in parentheses are prerequisite courses for the courses listed): ENT 425 (MGT 303 or ENT 312), MGT 316 (MGT 303), MGT 390, MGT 410, MGT 413 (MGT 311), ECON 380 (ECON 202, ECON 203), ECON 385 (ECON 202, ECON 203), ECON 496 (ECON 202, ECON 203), FIN 436 (FIN 330), MKT 324 (MKT 220), MKT 423 (MKT 220), Internship, study abroad.

Brewing and Distilling Arts & Sciences Certificate

Reference Number: 1733
Minimum Hours for Certificate: 12-15

Advisor: Dr. Paula Potter
Email: Paula.Potter@wku.edu
Grise Hall, Office 202
Phone: (270) 745-5913

Humans have been brewing alcohol since the dawn of recorded history, and distilling stretches back over a thousand years. Brewing and distilling play a major role in the Kentucky and U.S. economy. Industries as diverse as farming, tourism, construction, and retail all rely on, and contribute to alcohol production.

This multidisciplinary certificate is designed to complement an existing major in a related field, by providing the background understanding of topics related to the brewing and distilling industries that students need to be competitive in the marketplace.

Students will take the following four courses for the certificate: BDAS 300, ENT 312, HIST 341, BDAS 495.

Department of Marketing

Dr. Patricia Todd, Chair
Email: Patricia.Todd@wku.edu

Grise Hall, Office 401
Phone: (270) 745-2249; Fax: (270) 745-3190
Email: MKT@wku.edu
Website: www.wku.edu/marketing

Professors: L. Forbes, C. Martin, J. Phillips-Melancon
Associate Professors: T. Hawkins, P. Todd
Assistant Professor: M. Gardner
Executives-in-Residence: C. Derry, K. Sewell, G. Siegelman
Professor Emeritus: R. Jefferson

Marketing Vision Statement

Western Kentucky University's Marketing Department will be regionally acclaimed and nationally recognized for excellence in marketing and sales education.

Marketing Mission Statement

"To offer high quality undergraduate and graduate education for our varied constituencies." Our goal is to graduate students with the knowledge and skills necessary for success and leadership in the business community. To accomplish this mission, we will use progressive teaching techniques as well as seek and apply knowledge through research. We also provide service to the university and the community using our expertise. Ultimately, we insure that students are prepared to excel in an ever changing, increasingly competitive, global environment by engaging them in the classroom and the business community.

Core Values (for students and faculty)

Honesty • Integrity • Trustworthiness • Ethics • Initiative • Curiosity • Tolerance of Other People and Ideas • Loyalty • Accountability/Personal Responsibility • Entrepreneurial Spirit • Strong Work Ethic • Empathy • Cultural Awareness and Respect.

Marketing

The Marketing discipline offers three areas of concentration within the major: 1) strategic marketing; 2) professional sales; and 3) social media marketing. This allows a student to develop an education program which most closely fits their career aspirations and increases their placement opportunities.

Marketing is a people-oriented, dynamic business function that leads to goal-oriented exchanges between individuals and organizations. Important marketing activities include developing an idea, good or service intended to satisfy consumer wants and needs, promoting/advertising it to likely customers, selling it at a mutually agreeable price, and distributing it in acceptable locations.

The objectives of the marketing program are to teach students (1) the importance of marketing in an economy characterized by free consumer choice, (2) the knowledge and skills required to perform marketing activities, and (3) the interaction between marketing and diverse environmental forces which impact marketing decisions. The marketing student is prepared for a wide range of career opportunities in business and non-business, for profit and not-for-profit organizations. Entry-level business positions serve as a step into professional selling and sales force management, pricing, product or brand management, social media marketing, advertising, market research, physical distribution, retail management and merchandising, sports and event marketing or purchasing. Marketing also provides a solid foundation for those who hope to own their own business in the future.

Careers in marketing often lead to high-level management positions. Non-business and not-for-profit organizations (hospitals, educational institutions and charitable groups) also seek well-trained marketing graduates.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

Major in Marketing

Reference Number: 720P (seeking admission)
720 (officially admitted)
Minimum Hours for Major: 73

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:

Marketing Sales: https://www.wku.edu/degreepaths/18-19/documents/gfcb/marketing_sales_720.pdf

Social Media Marketing: https://www.wku.edu/degreepaths/18-19/documents/gfcb/marketing_social_media_720.pdf

Strategic Marketing: https://www.wku.edu/degreepaths/18-19/documents/gfcb/marketing_strategic_720.pdf

The major in Marketing requires 73 hours in professional and elective courses and leads to a Bachelor of Science degree. Marketing majors must earn a "C" or better in all Marketing classes (MKT prefix) used as a part of the major on the degree program. Transfer marketing classes with a grade lower than a "C" will not count towards the Marketing major. No minor or second major is required, although approved minors inside and outside the Gordon Ford College of Business are permitted and encouraged.

To be admitted to the Marketing program, a student must:

a. have completed 60 hours
b. complete (pass) the nine Marketing admissions core courses which consist of ACCT 200 and 201; ECON 202, ECON 203, and ECON 206; CIS 141; COMM 145; MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610 and MKT 220;
c. the student must also have an overall GPA of 2.5 or higher;
d. the student must also have a GPA of 2.5 or higher in the following six classes: ACCT 200; CIS 141; ECON 202; ECON 206; COMM 145; and MKT 220

In addition to these classes, Marketing majors must also complete the remainder of the Gordon Ford College of Business core consisting of CIS 243; ECON 306; FIN 330; and MGT 200, MGT 210, MGT 314, and MGT 498.

All marketing majors must take the following required courses: MKT 321, MKT 325, MKT 421, and MKT 422; MGT 361 or ENG 306.

For the Strategic Marketing concentration (MKGM), a student must also take MKT 322, MKT 328, or MKT 331; MKT 327 or MKT 423; plus two additional marketing electives and one professional elective.

For the Sales concentration (MKSA), a student must also take MKT 329, MKT 424, and MKT 425, plus one additional marketing elective and one professional elective.

For the Social Media Marketing concentration (MKSM), a student must take MKT 322, MKT 328, and MKT 331, plus one additional marketing elective and one professional elective or AD 240.

Minor in Marketing

Reference Number: 413
Minimum Hours for Minor: 24 / 27

The Marketing minor provides an attractive complement to many traditional liberal arts majors. Combinations of marketing with foreign language, agriculture, advertising, the performing arts, sports, health care and hospitality services, fashion retailing and others would broaden and strengthen career options. Marketing has a role in any occupational field that involves consumers and the choices which they make. The marketing minor is also appropriate for business majors who wish to increase their understanding of marketing. Students who are business majors must take 15 hours of marketing courses beyond MKT 220. The minor requires 24 to 27 semester hours. MATH 116 and SOCL 100 or PSY 100/PSYS 100 are recommended as background courses before beginning the minor though they are not a part of the minor program.

The MATH and SOCL/PSY/PSYS courses may be applied to Colonnade requirements.

The minor sequence is as follows: ACCT 200; ECON 202 or ECON 203; ECON 206 or equivalent; MKT 220; MKT 321; and 9 hours of upper-level MKT electives (12 hours of upper-level MKT electives for business majors). Marketing minors must earn a "C" or better in all Marketing classes (MKT prefix) used as a part of the minor on the degree program. Transfer marketing classes with a grade of less than a "C" will not count towards the marketing minor. More detailed information is available from the Department of Marketing.

Minor in Sales

Reference Number: 452
Minimum Hours for Minor: 18

The Sales minor provides an attractive option for students interested in professional selling. Combining a sales minor with a variety of fields such as finance, accounting, management, advertising, communication, health care and hospitality services, public relations, fashion retailing and numerous others would provide very strong career options.

The minor requires 18 semester hours. All students must complete a 12-hour core composed of MKT 220, MKT 325, and MKT 425, along with COMM 463. A student must also take either COMM 345 or PSY 350/PSYS 350. The remaining three credits must be chosen from MKT 323, MKT 329, MKT 331, MKT 424, or MKT 427. Sales minors must earn a "C" or higher in all marketing classes (MKT prefix) used as part of the minor. At least 6 hours in the Sales minor must be unduplicated from courses counted in the major and/or other minors. Marketing majors and minors are not eligible to receive a sales minor. More detailed information is available from the Department of Marketing.

College of Education and Behavioral Sciences

Gary A. Ransdell Hall, Office 2038
Phone: 270-745-4662; Fax: 270-745-6474
Website: www.wku.edu/cebs
Sample Degree Paths:
https://www.wku.edu/degreepaths/18-19/cebs.php

Dr. Corinne Murphy, Dean
Email: Corinne.Murphy@wku.edu

Departments/Schools

- Military Science and Leadership
- Professional Studies
- Psychology
- Teacher Education
- Counseling and Student Affairs
- Educational Administration, Leadership, and Research

The College of Education and Behavioral Sciences fulfills its mission of, "Empowering Individuals to Lead and Serve our Dynamic World, through preparing and developing professionals in diverse disciplines who serve our region and beyond."

The College of Education and Behavioral Sciences is composed of the School of Teacher Education; the Educational Leadership Doctoral Program; and the Departments of Counseling and Student Affairs; Educational Administration, Leadership, and Research; Military Science and Leadership; School of Professional Studies, and Psychology. In addition, the College provides services to the community through the Center for Gifted Studies; the World Council for Gifted and Talented Children; Training and Technical Assistance Services; the Center for Environmental Education and Sustainability; the Center for Excellence in Teaching and Learning – Models in Innovation; the Center for Literacy; the Center for Innovation in Math, Science, Engineering, and Technology Educational Excellence; the Kelly Autism Program, housed in the Suzanne Vitale Clinical Education Complex, the Talley Family Counseling Center, located in Gary Ransdell Hall; and the Center for the Study of Lifespan Development.

Within the College, undergraduate, graduate, and professional doctoral programs are offered in educational leadership, school counseling, mental health counseling, marriage, couple and family counseling, student affairs, educational administration, elementary education, business and marketing education, gifted studies, middle grades education, secondary education, science and mathematics education, environmental education, interdisciplinary early childhood education, special education, literacy education, adult education, military science and leadership, general psychology, clinical psychology, and school psychology. The College's programs are designed to prepare graduates for roles as teachers and school leaders, as well as for roles in business, clinical agencies, government, and industry. In conjunction with the ROTC program, the College provides well-educated commissioned officers to serve in the Regular Army, the Army National Guard, and the U.S. Army Reserves.

Baccalaureate programs (undergraduate majors and minors) in these areas are described in this catalog, while information about master's, education specialist, and doctoral degree programs are provided in the Graduate catalog. Those interested in any of these programs should contact the head of the appropriate department or the College of Education and Behavioral Sciences Dean's Office. In addition, information about each department and program may be found on the College's website: http://www.wku.edu/cebs.

Teacher Education Programs

The College of Education and Behavioral Sciences offers programs that are specifically designed for the professional growth of teachers and school leaders. These programs encompass the pre-service, in-service, and continuing education aspects of teachers' professional preparation. Within this framework, the programs serve to develop positive attitudes toward the profession of teaching, skills in specific areas, and dispositions necessary for continuous professional growth.

While the College of Education and Behavioral Sciences assumes primary responsibility for the professional preparation of teachers, the opportunity to educate teachers for the schools of the Commonwealth and the nation is shared by the University as a whole. Western Kentucky University is a charter member of the Renaissance Group for Teacher Education, which reflects its total campus commitment to quality teacher education programs.

The College's undergraduate teacher preparation programs are designed to meet the University's standards for baccalaureate degrees and the Kentucky standards for the designated teaching certificate. If the requirements for certification are changed at the state level, students seeking certification may be required to modify their programs of study to meet the new requirements. All teacher certification programs are accredited by Kentucky's Education Professional Standards Board and the National Council for the Accreditation of Teacher Education (NCATE)*.

All professional education courses require completion of field experiences in appropriate off-campus settings as mandated by the Kentucky Education Professional Standards Board. Details about the field placement policy, including the requirements for approval to be placed in a field setting, are provided on the website for the Office of Professional Educator Services (http://www.wku.edu/educatorservices).

For the most current information on teacher education and certification, admission to professional education, and admission to student teaching, consult the website for the Office of Professional Educator Services: http://www.wku.edu/educatorservices. Other policies applicable to students in teacher education programs may be found here: http://www.wku.edu/cebs/programs/undergraduate/policies/.

Students should begin seeking admission to the professional education unit early in their major. Students who have not met the requirements for admission to professional education may not proceed in a teacher education program past the pre-requisite courses.

The following are required of all undergraduate students seeking admission to professional education:

1. The candidate must file an application for admission to professional education and attend a Professional Education Admissions Orientation.
2. The candidate must file a statement indicating no convictions or pending charges on a felony or sexual misconduct misdemeanor. Individuals with a conviction or pending charges must contact and confer with the Director of Professional Educator Services. Falsification of this statement will result in immediate removal from teacher education.
3. The candidate must file a statement verifying that he/she understands such information as the current employment conditions, demands of the teaching field, wide range of skills essential to the teaching field, amount and nature of required class work, necessity of becoming involved in clinical experiences, increasing complexity of the teaching profession, cut-off scores on required tests, and academic attainment required for admission.
4. The candidate must file a statement indicating that he/she have received a written copy of the: (1) requirements for admission to teacher education and student teaching, (2) components/requirements related to program courses (portfolios, authentic assessment techniques, field experiences), (3) "Program Matriculation Standards Correlated to Teacher Admission," and (4) current Kentucky testing requirements (Praxis CORE).
5. The candidate must file a statement indicating a commitment to uphold The Professional Code of Ethics for Kentucky School Personnel and received notification of the Code of Conduct Review.
6. The candidate must submit a completed physical, TB screening and criminal background check (through Verified Credentials), all dated within one year of submission.
7. The candidate must provide an appropriate photograph for his/her file.
8. In order to be admitted to teacher education, the candidate must achieve and maintain a minimum overall GPA of 2.75. (In order to student teach the candidate must have a 2.75+ GPA in professional education, any identified certification area(s), and overall.) If the candidate has less than a 2.75 GPA, he/she can request admission based on the last 30 hours of course work if GPA is 3.0 or above. Requests must be emailed to the Office of Professional Educator Services at teacher.services@wku.edu.
9. As verification of proficiency in the use of oral language, the candidate must attain a grade of "C" or higher in an approved general education speech course for education majors, COMM 145, or equivalent course.
10. As verification of writing proficiency, the candidate must have at least a 2.5 GPA in English 100 and English 300 (or equivalent courses) with neither grade being less than a "C".
11. The candidate must provide the Office of Professional Educator Services with official verification that he/she has successfully completed the pre-professional skills assessments of basic knowledge administered by the Educational Testing Service with the corresponding minimum score:
    The Praxis Core Academic Skills for Educators (CASE): Reading, Writing, and Mathematics with minimums of 150 in Mathematics, 156 in Reading, and 162 in Writing.
    Praxis Test Preparation at WKU: https://www.wku.edu/educatorservices/praxis_test_prep.php.
12. The candidate must arrange for three positive faculty recommendations: Dispositions toward teaching will be evaluated according to specific qualities and traits. Recommendations may not be obtained from instructors of online courses as the dispositions are not necessarily observable in a learning environment. The dispositions are evaluated using three separate teacher admission evaluation forms. At no point may students deliver or receive the required forms; students will obtain permission of the instructors to complete the forms, and provide the names of the instructors to receive the forms, and the Office of Professional Educator Services will make contact with the designated instructors. Candidates may use only one non-WKU education instructor.
13. If pursuing a second degree program, the candidate must submit to the Office of Professional Educator Services a copy of their written degree program. Students must be admitted to/enrolled in a program that leads to certification.

14. All candidates must be officially approved by the Professional Education Committee prior to applying for student teaching. Each of the above requirements must be met prior to committee consideration of the candidate. Deadlines for application and committee consideration of a candidate's credentials are: September 15 for Fall admission and February 15 for Spring admission.

Note: Incomplete files that have been inactive for more than one year will be de-activated and/or destroyed.

Required of applicants seeking a second baccalaureate degree or certification-only for initial certification *(in addition to the requirements for all students)*:

1. Document a minimum overall GPA of at least 2.75 (4.0 scale) on a baccalaureate degree from an accredited institution (counting all coursework completed at the time of admission to teacher professional education), or a minimum GPA of at least 3.0 in the last 30 hours.
2. Demonstrate proficiency in oral communication, either by attaining a minimum grade of "C" in COMM 145 (or approved equivalent course); or by documenting a minimum undergraduate degree GPA of at least 2.75.
3. As verification of writing proficiency, the candidate must have at least a 2.5 GPA in English 100 and English 300 (or equivalent courses) with neither grade being less than a "C".
4. Acquire three positive faculty recommendations: Dispositions toward teaching will be evaluated according to specific qualities and traits. The dispositions are evaluated using three separate teacher admission evaluation forms. At no point may students deliver or receive the required forms; students will obtain permission of the instructors to complete the forms, provide the names of the instructors to receive the forms, and the Office of Professional Educator Services will make contact with the designated instructors. Candidate may use only one non-WKU education instructor.
5. Submit a copy of an approved written degree program or certification-only program for a program leading to initial certification.

WKU programs that lead to teacher certification through Kentucky Educational Professional Standard Board (EPSB):

1. Bachelor of Science in Elementary Education (grades P-5) leading to teacher certification.
2. Bachelor of Science in Middle Level Education in Social Studies and Language Arts (grades 5-9) leading to certification in English/Communications and/or Social Studies.
3. Bachelor of Science in Science and Mathematics Education, leading to certification for middle school (grades 5-9) or secondary (grades 8-12) mathematics or science certification when combined with one of the following majors:
    - Middle Grades Mathematics
    - Middle School Science
    - Biology
    - Mathematics
    - Chemistry
    - Geology, Earth and Space Science Concentration
    - Physics
4. Bachelor of Science in Interdisciplinary Early Childhood Education (birth to primary age), leading to certification.
5. Bachelor of Science in Special Education/Elementary Education: Learning and Behavior Disorders (grades P-12) and Elementary Education (grades P-5) leading to dual teacher certification in both areas.
6. Program of study in Secondary Education (grades 8-12) leading to certification with the following academic majors:
    - English for Secondary Teachers
    - Social Studies (includes Economics, Geography, Government, History, Psychology, Sociology)
7. Program of study in Middle/Secondary Education (grades 5-12) leading to certification with the following academic majors:
    - Agriculture Education
    - Business and Marketing Education
    - Family and Consumer Sciences Education
8. Program of study in Comprehensive Education (grades P-12) leading to certification with the following academic majors:
    - Art Education
    - Modern Languages Education, including French, German, Spanish, Chinese, Arabic
    - Music Education (Instrumental, Integrated, Vocal)
    - Physical Education
9. Program of study in Comprehensive Education (grades P-12) leading to certification with the following academic minor (also requires completion of a teacher certifiable major):
    - Health Education

Expiration of Courses and Programs Leading to Teacher Certification

For undergraduate certification-only programs: A student who entered WKU as a beginning freshman or transfer student Fall 2005 and thereafter (i.e., iCAP-eligible students) will be allowed seven consecutive years from the student's catalog term (initial term of entry) to complete teacher certification requirements. The Dean of the College of Education and Behavioral Sciences may grant an extension to this deadline.

For undergraduate courses used to satisfy requirements in programs leading to teacher certification: Consistent with NCATE Standard 1 (Candidate Knowledge, Skills, and Professional Dispositions), approved courses for programs leading to teacher certification must be aligned with current standards. Some older courses may not be aligned with current standards, and thus it may not be appropriate to count them in a student's program. Generally speaking, professional education and "content" courses used to satisfy program requirements in programs leading to professional education certification should be no more than 10 years old. Decisions about whether older content courses may be used will be made on a case-by-case basis by the department head of the student's major. For students in programs leading to secondary certification (Grades P-12, 5-12, and 8-12), decisions about whether older pedagogy courses may be used will be made by the faculty in the department in which the course is offered. However, if the pedagogy course is offered outside of the School of Teacher Education, the decision about whether the course may be used will be made in consultation with the School of Teacher Education. In all cases, documentation regarding the currency of course content and the alignment of the course with current teacher standards must be provided by the student and approved by the department that offers the course, upon recommendation from the School of Teacher Education when appropriate. Students who wish to use courses older than 10 years to satisfy program requirements may be required to demonstrate proficiency related to current course content and learning outcomes.

Advising for Teacher Education Programs – All majors will be advised in the College of Education and Behavioral Science once they have reached junior status.

Recommendation for Initial Teacher Certification

To be recommended for initial certification at the baccalaureate level (including post-baccalaureate certification-only programs), an applicant must document:

- Completion of approved program in each desired certification area(s);
- Passing score(s) on the PRAXIS II exam(s) or other assessments required for each desired teaching area(s) (see http://www.ets.org/praxis/ky for the most current list of required assessments);
- Achievement of at least a 2.75 GPA overall, in each certifiable major(s) and minor(s), and in professional education courses; and
- Attainment of at least a "C" in all professional education courses, including EDU 489 and student teaching.

Transfer Credit for Teacher Education − If determined to be equivalent, professional education courses completed at another institution may be accepted for transfer to Western Kentucky University teacher preparation programs, provided that a minimum grade of "C" was earned in each course accepted for transfer and the course meets the course expiration guidelines as stated above.

Field Experience Policy − WKU undergraduate teacher preparation programs are designed to meet the University's standards for baccalaureate degrees, master's degrees, specialist degrees, and certification-only programs, as well as the Kentucky standards for the designated teaching certificate. All professional education programs require completion of a variety of diverse and focused field experiences in appropriate off-campus Primary-Grade 12 school settings and school-related settings as well as student teaching or equivalent experiences. The number of required hours of field experiences varies by program; however, a minimum of 200 hours of approved off-campus field experience is required by the state in professional education courses prior to the student teaching experience or equivalent. The candidate is responsible for documenting completed hours, date, and setting and then entering all of this information into KFETS (Kentucky Field Experience Tracking System). In addition, all programs require one 16-week or two 8-week full-time student teaching placements, or appropriate equivalent. Every effort is made to provide teacher candidates with field experiences in diverse settings (based on socioeconomic status, race/ethnicity, language, and exceptionalities of students) in order to ensure that they are prepared to help all students learn. Prior to visiting any school, a student must have on file in the Office of Professional Educator Services a current TB risk assessment, a current physical exam, and a current criminal background check through Verified Credentials. **Students are responsible for the expenses incurred in complying with this requirement.** * Note that NCATE and TEAC have merged in to a new body, the Council for the Accreditation of Educator Preparation or CAEP, and WKU will be accredited by CAEP in our next accreditation cycle.

School of Teacher Education

Dr. Sylvia Dietrich, Director, Head

Gary A. Ransdell Hall, Office 1092
Phone: 270-745-5414; Fax: 270-745-6322

Website: www.wku.edu/ste
Facebook: www.facebook.com/WKU School of Teacher Education
Twitter: #wkuste

Professors: S. Dietrich, K. Gandy, C. Houston, P. Jukes, M. Maxwell, J. Moore, P. Petty, J. Roberts
Associate Professors: J. Applin, M. Day, X. Huang, N. Hulan, J. Huss, E. Kirby, J. Knotts, M. McDonald, L. Murley, A. Paganelli, R. Stobaugh, A. Szymanski, J. Tassell
Assistant Professors: S. Keesey, E. Margarella, J. Mittleberg, C. Noel, K. Smith,
Clinical Assistant Professors: W. Chen, J. Logsdon, A. Onion, D. Super
Instructors I: P. Bertke, K. Cartwright, P. Janoski, R. Leer, M. Mattingly, A. Patterson
Professional-in-Residence: D. Almand, D. Bell, L. Hines, J. Logsdon, M. Rudloff, R. Tyler
Transitional Retirees: N. Atwell**,** M. Bowman, B. Burch, S. Evans, B. Fiehn, J. Pierce

The School of Teacher Education provides graduate and undergraduate programs in elementary education, interdisciplinary early childhood education, middle grades education, secondary education, science and mathematics education, and special education. Undergraduate majors offered are: business and marketing education; elementary education; interdisciplinary early childhood education; middle level education in social studies and language arts; science and mathematics education; and special education/elementary education. The School of Teacher Education also offers various Master of Arts in Education, Master of Arts in Teaching, Master of Science, and Education Specialists degrees. For additional information visit: http://www.wku.edu/graduate.

Business and Marketing, Elementary Education/Special Education, Middle Level Education in Social Studies and Language Arts majors and undeclared students receive advising in the School of Teacher Education (1092 GRH, 745-5414). Once students are admitted into their declared major, they will be advised by The School of Teacher Education. Refer to the table in the Teacher Education section of this catalog and the School of Teacher Education website for further information (http://www.wku.edu/ste).

Major in Elementary Education

Program Coordinator: P. Jukes

Reference Number: 527
Minimum Hours for Major: 82

Minimum Hours for Degree: 128
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/cebs/bs_elementary_ed_527.pdf

The elementary education program leads to the Bachelor of Science degree and the Kentucky Elementary Certificate (P-5). The program requires completion of a Colonnade component, related studies component, and professional education component.

While students follow university guidelines in completing the Colonnade component, a speech course and biological science course with laboratory are specifically included within this 44 semester hour requirement. The related studies component consists of 36 semester hours and includes the following courses: MATH 205, MATH 206, MATH 308, LME 318, ENG 302, SPED 330, ART 310, MUS 311, MUS 314, PE 354, GEOG 352 or HIST 456, and a computer literacy course selected from CIS 141 or LME 448. The professional education component is 46 semester hours and is sequenced as follows: EDU 250, PSY 310, LTCY 320, ELED 345, ELED 355, ELED 365, ELED 407, LTCY 420, ELED 465, ELED 405, ELED 406, EDU 489, and ELED 490. Within the professional education sequence, students are required to meet state requirements for field work experience in addition to coursework. This laboratory work will be in field experiences away from the main university campus.

Major in Middle Level Education in Social Studies and Language Arts

Program Coordinator: J. Moore

Reference Number: 5001
Minimum Hours for Major: 70-94

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Middle Level Education Language Arts/Communication single area certification:
http://wku.edu/degreepaths/18-19/documents/cebs/mle_socialstudies_and_languagearts_mela_5001.pdf

Middle Level Education Social Studies / Language Arts dual certification:
http://wku.edu/degreepaths/18-19/documents/cebs/mle_socialstudies_and_languagearts_mesd_5001.pdf

Middle Level Education Social Studies single area certification:
http://wku.edu/degreepaths/18-19/documents/cebs/mle_socialstudies_and_languagearts_mess_5001.pdf

The Middle Level Education in Social Studies and Language Arts program leads to the Bachelor of Science degree and certification for grades 5-9 in Social Studies, Language Arts/Communication, or both. Three concentrations are available: 1) Dual area teacher certification in middle level social studies and language arts/communication; 2) Single area teacher certification in middle level social studies; 3.) Single area teacher certification in middle level language arts/communication.

The program requires completion of:

- A biological science course and a physical science course, generally taken as part of the Colonnade program;
- 37-40 semester hours of professional education courses: MGE275 (3 hours), PSY 310 (3 hours), SPED 330 (3 hours), PSY 421 or PSY 422 (3 hours), LTCY 421 (3 hours), MGE 385 (3 hours), a 3-hour MGE methods course for each area of certification, MGE 490 (10 hours), and EDU 489 (3 hours), plus a 3-hour computer literacy course selected from CIS 141 and LME 448; and
- The indicated content-area coursework for dual area or single area teacher certification in one of the three concentrations.

Concentration 1: Dual area certification in middle level social studies and language arts/communication.
Students who choose this concentration must complete both of the following methods courses as part of the professional education coursework listed above: MGE 475 Teaching Language Arts (3 hours) and MGE 481 Teaching Social Studies (3 hours). In addition, they must complete the following content requirements:

Social Studies (dual area certification) 27-30 hours: HIST 101 or HIST 102, HIST 240, HIST 241, GEOG 110, GEOG 360, ECON 150 or ECON 202 and ECON 203, PS 110, SOCL 100 or ANTH 120, and a 3-hour elective selected from an upper-division, non U.S., non-European history course.

Language Arts/Communication (dual area certification) 24 hours: ENG 100, ENG 300, ENG 302, ENG 391 or ENG 392, COMM 145, LME 407. In addition, six hours of electives should be chosen from ENG 301, ENG 401, ENG 410.

Total Hours for this concentration: 91-94

Concentration 2: Single area teacher certification in middle level social studies
Students who choose this concentration must complete MGE 481 Teaching Social Studies (3 hours) as part of the professional education coursework listed above. In addition, they must complete the following content requirements:

Social Studies (single area teacher certification) 36-39 hours: HIST 101 or HIST 102, HIST 240, HIST 241, GEOG 110, GEOG 360, ECON 150 or ECON 202 and ECON 203, PS 110, SOCL 100 or ANTH 120. In addition, 12 hours of electives (4 courses) should be selected from the following list (at least one of these courses must be a non U.S., non-European history course): HIST 305, HIST 306, HIST 307, HIST 317, HIST 353, HIST 358, HIST 456, HIST 453, GEOG 330, GEOG 350, GEOG 35, GEOG 480.

Total Hours for this concentration: 73-76

Concentration 3: Single area teacher certification in middle level language arts/communication.
Students who choose this concentration must complete MGE 475 Teaching Language Arts (2 hours) as part of the professional education coursework listed above. In addition, they must complete the following content requirements:

Language Art/Communication (single area teacher certification) 33 hours: ENG 100, ENG 204, ENG 300, ENG 301, ENG 302, ENG 391 or ENG 392, ENG 401, ENG 404, ENG 410, any ENG upper-division course, COMM 145, LME 407.

Total Hours for this concentration: 70

Students must be admitted to professional education before enrolling in LTCY 421. See http://www.wku.edu/teacherservices for details on the requirements for admission to professional education.

In order to meet the prerequisites for admission to student teaching, students must complete all professional education and content courses with grades of "C" or higher; attain at least a 2.75 GPA overall, in professional education courses, and in each content area; and achieve specified ratings on dispositional and critical performance assessments. For details on the prerequisites for student teaching, see http://www.wku.edu/teacherservices/student_teaching/index.php.

Refer to the School of Teacher Education website (http://www.wku.edu/ste) for additional information. Students with a major in Middle Level Education in Social Studies and Language Arts receive a 12-hour waiver in the upper-division hour requirement in the major field.

Individuals who have or are eligible for certification in middle school math or science and who wish to seek either middle level social studies or middle level language arts/communication certification are required to complete the content coursework indicated for dual area certification with the corresponding methods course and LTCY 421.

Programs Leading to Teacher Certification, Grades 5-12

***Agriculture Education*:** offered in Department of Agriculture, Ogden College of Science and Engineering.

***Business and Marketing Education**:* offered in the School of Teacher Education.

***Family and Consumer Sciences Education**:* offered in the Department of Human Applied Sciences, College of Health and Human Services.

***Technology Education*:** offered in the School of Engineering and Applied Sciences, Ogden College of Science and Engineering.

Major in Business and Marketing Education

Program Coordinator: M. McDonald

Reference Number: 621
Minimum Hours for Major: 82

Minimum Hours for Degree: 128
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/cebs/bs_business_and_marketing_ed_621.pdf

The Business & Marketing Education program of Western Kentucky University prepares future educators to demonstrate best teaching practices in the discipline. This program prepares prospective teachers, undergraduate, for certification to teach Business and/or Marketing classes in grades 5-12. Graduates may seek opportunities other than teaching grades 5-12 such as teaching in Technology Centers, become corporate trainers, seek business positions other than teaching, or, with graduate degrees, seek to teach in higher education such as community colleges and universities.

The major in business education requires 82 hours and leads to a Bachelor of Science degree. No minor or second major is required.

This major prepares students for certification in all business and marketing subjects in grades 5-12. The program carries the Kentucky Business and Marketing Certification.

Students in this program must complete the following professional education courses: EDU 250, SPED 330, PSY 310, SEC 351, SEC 352, SEC 453, SEC 473, LTCY 421, EDU 489, SEC 490. The business and marketing content courses (48 semester hours) are as follows: ACCT 200 and ACCT 201; ECON 202 or ECON 203; BE 210; CIS 243; FIN 161 or FACS 310; MGT 210; BUS 254C; BUS 226C or MGT 200; BE 350, BE 400, BE 410, and BE 486; MKT 220 and one marketing elective selected from MKT 321, MKT 323, MKT 324, MKT 326 or MKT 327.

Program of Study in English for Secondary Teachers (Grades 8-12) and Social Studies (Grades 8-12)

Preparation for secondary certification in the content areas of English and in Social Studies involves completing the Bachelor of Arts degree and all requirements for a Kentucky secondary certificate (grades 8-12), including a minimum of 34 semester hours of professional education coursework. Required courses are SEC 350, SEC 450, and SEC 490; EDU 250 and EDU 489; a methods course for each certification area; PSY 310, LTCY 421; and all requirements for the English for Secondary Teachers major or the major in Social Studies. Required courses for these majors are described in the respective catalog sections for the Department of English and the Department of History.

Students with sophomore standing are eligible to enroll in secondary education courses. They may enroll in EDU 250 and then PSY 310. Application for admission to teacher education is started during the semester in which EDU 250 is taken. Application materials must be completed prior to taking SEC 450 and methods classes. The next two courses, SEC 350 is a junior level course. The remaining courses—SEC 450, a methods course, LTCY 421, EDU 489, and student teaching—are taken during the senior year. Students are required to meet state requirements for field experience in addition to coursework.

Major in Science and Mathematics Education (SMED)

Program Coordinator: L. Pesterfield

Reference Number: 774
Minimum Hours for Major: 37

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Students who wish to be science or mathematics teachers in middle or secondary schools must complete the major in Science and Mathematics Education (SMED), offered in the School of Teacher Education, and at least one content major from the following list (consult the catalog listing for the respective department for information about the requirements for the content majors):

Major/Concentration	Department	Leading to Teacher Certification in Grades
Middle Grades Mathematics *Sample Degree Path:* http://wku.edu/degreepaths/18-19/documents/cebs/middle_grade_math_730_774.pdf	Department of Mathematics	Grades 5-9
Middle School Science *Sample Degree Path:* http://wku.edu/degreepaths/18-19/documents/cebs/middle_grade_science_734_774.pdf	OCSE Dean's Office	Grades 5-9
Biology *Sample Degree Path:* http://wku.edu/degreepaths/18-19/documents/cebs/education_biology_617_774.pdf	Department of Biology	Grades 8-12
Chemistry *Sample Degree path:* http://wku.edu/degreepaths/18-19/documents/cebs/education_chemistry_623_774.pdf	Department of Chemistry	Grades 8-12
Geology, Earth and Space Science Concentration *Sample Degree Path:* http://wku.edu/degreepaths/18-19/documents/cebs/education_geol_earth_space_sci_676_774.pdf	Department of Geography and Geology	Grades 8-12
Mathematics *Sample Degree Path:* http://wku.edu/degreepaths/18-19/documents/cebs/middle_grade_math_730_774.pdf	Department of Mathematics	Grades 8-12
Physics *Sample Degree Path:* http://wku.edu/degreepaths/18-19/documents/cebs/education_physics_754_774.pdf	Department of Physics	Grades 8-12

Students seeking certification in middle grades (5-9) or secondary grades (8-12) must complete both the science and mathematics education program (SMED) and one of the following: the middle school science (MSS) program (reference number 734), the middle grades mathematics (MGM) program (reference number 730), or a teacher certifiable science or mathematics content major. This combination of programs leads to a bachelor's degree with a minimum of two majors. Completion of the two programs, as well as the successful completion of the current requirements to be recommended for certification, will qualify a student for Kentucky middle grades science or mathematics certification (grades 5-9), or secondary certification (grades 8-12) in one of the following approved science or mathematics secondary content fields: biology, chemistry, earth and space science, mathematics, or physics. Students seeking admission to the SMED program must earn a grade of C or higher in SMED 101 and SMED 102 and meet requirements for admission to teacher education.

The science and mathematics education program requires completion of 37 hours of professional education courses. The recommended Colonnade mathematics course is either MATH 117 or MATH 118. The required courses are:

SMED 101: Introduction to Inquiry-Based Approaches to Teaching (1 hour)
SMED 102: Introduction to Inquiry-Based Lesson Design (2 hours)
SMED 310: Knowing and Learning in Mathematics and Science (3 hours)
SMED 320: Classroom Interactions (3 hours)
SPED 330: Intro to Exceptional Education: Diversity in Learning (3 hours)
SMED 340: Perspectives on Science and Mathematics (3 hours)
SMED 360: Research Methods for Science and Math Teachers (3 hours)
SMED 470: Project-Based Instruction (3 hours)
SMED 489: Student Teaching Seminar (3 hours)
LTCY 421: Content Reading in the Middle and Secondary Grades (3 hours)
*MGE 490/SEC 490: Student Teaching (10 hours)

**MGE 490 for students seeking middle grades certification or SEC 490 for students seeking secondary certification.*

Comprehensive Certificates, Grades Primary through 12

***Art*:** offered in the Department of Art - Potter College of Arts and Letters
***Arabic*:** offered in the Department of Modern Languages – Potter College of Arts & Letters
Chinese: offered in the Department of Modern Languages – Potter College of Arts & Letters
***French**:* offered in the Department of Modern Languages - Potter College of Arts and Letters
***German*:** offered in the Department of Modern Languages - Potter College of Arts and Letters
***Health Minor*:** offered in the Department of Public Health - College of Health and Human Services
***Music*:** offered in the Department of Music - Potter College of Arts and Letters
***Physical Education*:** offered in the Department of Kinesiology, Recreation, and Sport - College of Health and Human Services
Spanish: offered in the Department of Modern Languages - Potter College of Arts and Letters

Major in Special Education: Learning and Behavior Disorders and Elementary Education

Program Coordinator: G. Kirby

Reference Number: 5003
Minimum Hours for Major: 88
Minimum Hours for Degree: 130
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/cebs/special_ed_eled_5003.pdf

The Special Education: Learning and Behavior and Elementary Education dual certification program leads to the Bachelor of Science degree and the Kentucky Teaching Certificates for Learning and Behavior Disorders (P-12) and Elementary Education (P-5). The program requires completion of a general education component, related studies component, and professional education component. The related studies component consists of 27 semester hours and includes the following courses: MATH 205, MATH 206, MATH 308, LME 318, ENG 300, MUS 314, PE 354, GEOG 452 or HIST 456, and a computer literacy course selected from CIS 141 or LME 448. The professional education component is 61 hours and is sequenced as follows: EDU 250, PSY 310, LTCY 320, SPED 335, SPED 345, SPED 340, ELED 365, ELED 407, SPED 424, SPED 350, LTCY 420, SPED 480, ELED 405, ELED 406, SPED 425, SPED 400, EDU 489, SPED 490, and ELED 490. A passing score on the PRAXIS CASE and a 2.75 GPA are required prior to enrollment in ELED 365, SPED 400, and ELED 407. Student teaching occurs during the final semester of the program. Within the professional education sequence, students are required to meet state requirements for fieldwork experience in addition to course work. This laboratory work will be in field experiences away from the main university campus.

Major in Interdisciplinary Early Childhood Education

Program Coordinator: G. Kirby

Reference Number: 526
Minimum Hours for Major: 69-76
Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Non-Teacher Certification:
http://wku.edu/degreepaths/18-19/documents/cebs/bs_interdisciplinary_early_childhood_ed_nonteachercert_526.pdf
Teacher Certification:
https://www.wku.edu/degreepaths/18-19/documents/cebs/bs_interdisciplinary_early_childhood_education_526.pdf

The major in interdisciplinary early childhood education requires 69-76 hours and leads to a Bachelor of Science degree. The major is designed to prepare early childhood educators to work with children, both with and without disabilities, ages birth through kindergarten, and their families. A grade of "C" or higher must be earned for all courses required for this major. No minor or second major is required. Students select either the teacher certification concentration (75 hours, which leads to initial certification for Birth-5 years) or the non-certification concentration (68 hours).

Graduates of the certification concentration are eligible to apply for certification in Interdisciplinary Early Childhood Education (IECE), Birth to Primary. Graduates of this concentration are prepared for preschool and kindergarten positions in public schools, early intervention programs (i.e., First Steps), Head Start programs, and other public and private agencies serving young children and families. Graduates of the non-certification concentration are prepared for preschool and kindergarten positions in private schools, Head Start programs, and other public and private agencies serving young children and families; or as a First Steps Service Coordinator.

The IECE program will prepare and engage learners:

- in current research and recommended practices in early childhood/early childhood special education (EC/ECSE) that emphasizes performance-based standards;
- as lifelong learners who actively engage in the learning process through coursework, field experiences, and research;

- to support and engage young children and families in a variety of settings through collaborative efforts with an array of professionals;
- with knowledge, skills, and dispositions in working with young children with and without disabilities, delays, or risks across all settings;
- to partner with families through family-centered approaches;
- in culturally and linguistically responsive practices that addresses the diverse needs of children and families through individual and community engagement; and
- in leadership opportunities and activities within the EC/ECSE field.

Both concentrations require the following courses: FACS 191, FACS 192, FACS 295, FACS 296, CD 481, IECE 320, IECE 423, SPED 330, SPED 331, SPED 419, SPED 422, SPED 432, IECE 321, IECE 322, IECE 323, IECE 324, IECE 325, IECE 326, IECE 421, IECE 422, and LTCY 310. Therefore, students in the teacher certification concentration must take IECE 490 (Infant and Toddler) Student Teaching, IECE 490 (Preschool) Student Teaching, and EDU 489. Students must be admitted to professional education prior to enrollment in IECE 324, IECE 325, and IECE 326. Student teaching occurs during the final semester of the program. Students in the non-certification concentration must take IECE 491 and IECE 489.

Additional information about the IECE major can be found on the program web site in the School of Teacher Education, (http://www.wku.edu/ste).

Interactive Training Design Certificate

Program Coordinator: X. Huang

Reference Number: 1725
Minimum Hours for Certificate: 12

The instructional design process involves analyzing learning and performance needs and designing, developing, implementing, evaluating, and managing instructional and non-instructional solutions to improve performance in various settings. This 12-hour program will prepare students to analyze learners, learning contexts and skills, and design learning activities. Students will learn to evaluate those learning activities and to revise training activities. Students will acquire skills to develop multimedia training modules.

The program prepares and equips practitioners and students in training development. This is a skill needed in any topic, discipline, or workplace setting. Every business, government agency, nonprofit organization, industry, or educational institution offers training for its employees. This program prepares students to develop those training modules or activities, deliver that training, and evaluate the training.

Examples encompass print and electronic elements that may include instructional videos, online instructional activities, user manuals for instructors, instruction manuals for commercial products, teaching manual, professional development curricula, multi-media instructional units, training packs for trainers, instructional modules for vocational/technical courses, instructional modules for classroom instruction, and teaching and training aids in print or electronic formats. These skills make student more employable after completion of this program.

Students who successfully complete the certificate program will possess the following competencies and learning outcomes:

- Identify the steps, subordinate skills and entry behaviors and knowledge required to accomplish and instructional goal and correlated performance objectives.
- Produce and instructional system design process that is tailored to the education and training requirements of a specific organization or problem.
- Design a training module for a specific organization or problem to include context and learner analysis, write objectives and test items, prepare instructional strategies, and revise training module based on subject matter expert feedback.
- Apply principles and strategies of multimedia design, interface design, and visual design to evaluating existing and creating new multimedia products in an instructional design setting.
- Design, develop and evaluate a multimedia module using appropriate software application in training settings.

Admission Requirements: Minimum requirements for acceptance into the program are:

- High school diploma or equivalent
- Application and fee: Students seeking a certificate program must submit an online application with Undergraduate Admissions. The completed form must be submitted along with a one-time application fee of $40 (non-refundable).
- Transcript Record: Graduates/Transfers of accredited institutions other than WKU must submit an official transcript from that institution.

Certificate Requirements: ID 460, ID 465, ID 470, and ID 475. (12 hours)

Department of Military Science and Leadership

LTC Thomas MacMillin, Department Head

Academic-Athletic Building #1 E.A. Diddle Arena, Office 1512
Phone: 270-745-4293; Fax: 270-745-6050
Email: **army.rotc@wku.edu**
Website: www.wku.edu/rotc

Assistant Professors: MAJ Jason Zdunich, CPT Darrell Sheppeard
Instructors: SFC Freddy Rodriguez, SFC Esteban Deleon

The Department of Military Science and Leadership prepares well-educated students with leadership potential to serve as officers in the United States Army, the Army Reserve, or the Army National Guard through progressive, hands-on training with the Reserve Officers' Training Corps (ROTC). Academic instruction and supervision are provided by a career Army officer in the grade of Lieutenant Colonel, who serves as the department head and the Professor of Military Science (PMS). A staff of Army commissioned and non-commissioned officers assists the PMS.

The military science program is voluntary and is open to both male and female students. Students do not incur a military obligation by participating in the basic course.The military science curriculum consists of basic and advanced courses.

Basic Course
The basic course consists of a four-semester block of instruction normally taken during the freshman and sophomore years. The emphasis in these courses is on team and leadership development, "hands-on" equipment instruction, land navigation, and leadership skills training. In order to receive credit for completing the basic course in residence at Western Kentucky University, the student must complete MIL 101, MIL 102, MIL 201, and MIL 202.

The student also may gain credit for the basic course by taking MIL 210. This course is the 28-Day Leader's Training Course conducted at Fort Knox, Kentucky, and instructs students in those subjects taught during the basic course of the ROTC program.

Students with prior military service, or membership in the National Guard or Reserves, also may receive advanced placement for part of or the entire basic course, depending upon the amount and character of service performed. Regardless of the option, advanced placement, or prior military training completed, a student must complete the basic course or its equivalent to gain eligibility to enroll in the advanced course.

Advanced Course
The advanced course is designed to commission officers for service in the United States Army, both active duty and reserve. Successful completion of the advanced course at Western Kentucky University earns the student a commission as a Second Lieutenant in the United States Army. The advanced course consists of four semester-long courses and a 33-day summer course. An additional military history course, normally taken during the junior or senior years, must also be completed prior to being fully qualified for commissioning. Advanced course students in their junior year are paid a tax-free subsistence allowance of $450.00 per month and in their senior year, $500.00.

The student must graduate from the Cadet Leader Course (CLC) prior to being eligible for commissioning. CLC is normally attended during the summer break between the end of the junior and start of the senior year. While attending CLC, students receive training pay. The U.S. Army furnishes travel expenses to and from CLC, uniforms, quarters, medical care, and rations during the course period.

Additionally, advanced course cadets may be eligible to attend Army schools such as Airborne, Air Assault, and Northern Warfare. They may also spend several weeks during the summer with active Army units located in Europe, Asia, and throughout the United States. These activities are voluntary, and students must meet high standards to be eligible for attendance.

The applicant for the advanced course of instruction must:

1. Be a citizen of the United States or an alien in a category approved by the Department of the Army. Approval must be granted prior to enrollment.
2. Be at least 17 years of age at the time of enrollment and not reach 30 years of age at the time of commissioning in the U.S. Army (this may be waived).
3. Be medically qualified in accordance with standards prescribed by the Department of the Army.
4. Have satisfactorily completed the basic course or Cadet Initial Entry Training (CIET) or have equivalent military or ROTC training in lieu of. Veterans holding honorable discharges may qualify for the advanced course.
5. Have a minimum overall academic average of 2.0 and have completed a minimum of 60 credit hours.
6. Be selected by the Professor of Military Science.

7. Execute a written agreement with the government to complete the two-year advanced course of training; attend CLC; agree in writing to accept an appointment as a commissioned officer in the Army Reserve; and serve a prescribed tour of active or reserve component duty as a commissioned officer.

Major in Military Leadership

Reference Number: 733
Minimum Hours for Major: 36-42
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/cebs/military_leadership_733.pdf

The major in military leadership creates well-prepared, well-educated, culturally aware, dynamic leaders through interdisciplinary coursework, internships, Army training and schools, community involvement, and various leadership opportunities. The military leadership program spans up to eight semesters, during which the student is mentored and developed using emphasis on team and leadership skills training. In addition to military science courses, the student selects nine credit hours from political science, psychology, management, communications, geography, sociology, and history. With the completion of additional requirements, students may also be able to earn a certificate in organizational leadership.

Although the program prepares students to be eligible for commission in the U.S. Army, program graduates are not required to seek commissions. In addition to prospective officers, non-commissioned officers and veterans may also be admitted to the major in military leadership.

Program admission requirements for those seeking a commission are:

- Be a citizen of the United States or an alien in a category approved by the Department of the Army. Approval must be granted prior to enrollment.
- Be at least 17 years of age at the time of enrollment and not reach 30 years of age at the time of commissioning in the U.S. Army (this may be waived).
- Be medically qualified in accordance with standards prescribed by the Department of the Army.
- Have a minimum overall academic grade point average of 2.0.
- Be recommended by the Professor of Military Science (department head).
- Execute a written agreement with the government to complete the two-year advanced course of training, attend the Cadet Leader Course (CLC), agree in writing to accept appointment as a commissioned officer in the Army Reserve, and service a prescribed tour of active or reserve service component duty as a commissioned officer.

Upon completion of the program, the student will be eligible to receive a commission as a Second Lieutenant in the United States Army.

Program admission requirements for those with prior military service or those who are currently serving as non-commissioned officers not seeking a commission are:

- Be a citizen of the United States or an alien in a category approved by the Department of the Amy. Approval must be granted prior to enrollment.
- Be medically qualified in accordance with standards prescribed by the Department of the Army.
- Have a minimum overall academic grade point average of 2.0.
- Be recommended by the Professor of Military Science (department head).

The major in military leadership requires 36-42 hours and leads to a Bachelor of Science degree. A second major or minor is required. Students are encouraged to choose a second major related to their intended career objectives.

Program Requirements
Basic Course (7-10 hours): Students must take the following courses in sequential order unless authorized by the PMS: MIL 101, MIL 102, MIL 201, MIL 202; or MIL 209, MIL 210.

Advanced Course (17-20 hours): Students must take the following courses in sequential order unless otherwise authorized by the PMS: MIL 301, MIL 302, MIL 401, MIL 402, MIL 410 or LEAD 400.

*Restricted Elective (3 hours)**:*** Choose one of the following restricted electives: HIST 299 or HIST 494

Electives (9 hours)**:** Select 9 hours of electives with advisor approval from the following list; at least two disciplines must be represented: PSY 355, PSY 412, PS 250, PS 260, PS 350, PS 357, PS 363, PS 365, PS 366, PS 367, PS 368, PS 457, COMM 240, COMM 362, COMM 463, MGT 210, MGT 419, LEAD 200, LEAD 400, HIST 426, HIST 439, SOCL 260, SOCL 362, SOCL 375, GEOG 364, GEOG 462, GEOG 465, GEOG 466, GEOG 467.

Minor in Military Science

Reference Number: 420
Minimum Hours for Minor: 26-30

Those students who complete the advanced course may use military science as an academic minor. A minor in military science requires 26-30 hours depending upon the amount of advanced placement awarded the student. Required courses are MIL 101, MIL 102, MIL 201, and MIL 202; or MIL 210, or credit for the basic course through military service (i.e., completion of the Basic Course); MIL 301, MIL 302, MIL 401, MIL 402 and MIL 410 (Advanced Course).

Simultaneous Membership Program − This program is designed to allow selected members of the Army National Guard and Army Reserve to enroll in the Advanced Army ROTC Program. These students serve in their units as officer trainees while completing the advanced course of instruction. Upon completion of the advanced course and college graduation, they are commissioned as Second Lieutenants. Please contact Brandon Smith at Brandon.Smith@wku.edu or call (270) 745-6054.

Financial Assistance Program − Army ROTC offers a scholarship program to provide financial assistance to outstanding young men and women who are interested in the Army as a profession. Scholarships may be awarded for periods of two, three, or four years. Four-year scholarships are awarded to selected high school applicants who plan to attend a university hosting Army ROTC. Applicants must apply prior to the deadline during their senior year in high school. Contact the Recruiting Officer for the deadline.

Two- and three-year scholarships are awarded to university sophomores or freshmen who desire to earn an officer's commission. Each scholarship provides tuition, textbooks, classroom supplies, and laboratory fees in addition to tax-free allowances of $300.00 to $500.00 per month. Budget dependent, four-year scholarship recipients *may* receive room and board scholarships from the University. Two- and three-year scholarship recipients may receive room scholarships from the University.

Applicants are not required to be enrolled in the ROTC program to apply. Competition is very keen and is open nationwide. Students wishing to apply for these scholarships must submit a completed application to the Department of Military Science and Leadership.

Department of Psychology

Drs. Pitt Derryberry and Steve Wininger, Co-Department Heads

Gary A. Ransdell Hall, Office 3012
Phone: (270) 745-2695; Fax: (270) 745-6934
Email: Psych@wku.edu
Website: www.wku.edu/psychology/
facebook: www.facebook.com/PsychologyatWKU

Professors: P. Derryberry, R. Grieve, C. Myers, A. Norman, S. Wininger
Associate Professors: L. Duffin, Q. Hollis, A. Paquin, J. Redifer, Q. Zhao
Assistant Professors: R. Farmer, T. Gross, A. Lockwood, S. Ochs, T. Thornberry
Instructor I: J. Prather
Transitional Retirees: E. Jones, S. Kuhlenschmidt, V. Pfohl, R. Talley

The Department of Psychology offers courses, programs, and research opportunities that contribute to the professional and pre-professional training of psychology students and at the same time serves other departments where professional training requires knowledge of psychology. Information about the psychology major can be found on the department web site: http://www.wku.edu/psychology.

Major in Psychology

Reference Number: 760P (seeking admission)
760 (officially admitted)

Minimum Hours for Degree:120
Degree: Bachelor of Arts

Minimum Hours for Major: 34-53

Suggested Degree Paths
General (without Concentration): http://wku.edu/degreepaths/18-19/documents/cebs/psych_760.pdf
Forensic Psychology: http://wku.edu/degreepaths/18-19/documents/cebs/psych_forensic_psych_760.pdf
Sport Psychology: http://wku.edu/degreepaths/18-19/documents/cebs/psych_sport_psych_760.pdf

The general major in psychology requires a minimum of 34 semester hours and leads to a Bachelor of Arts degree.

A minor, second major, or the sport psychology concentration is required. At least half of the program must be in upper division courses (numbered 300 or above). The major is restricted to students with a minimum composite ACT of 20 (or equivalent SAT) or a minimum cumulative GPA of 2.5 after 30 plus hours.

Core Courses for major and concentrations: Required core courses (16 hours) are: PSY 100, PSY 210, PSY 211, PSY 313, PSY 481, and MATH 183 or PHIL 215 or another mathematics course (excluding MATH 109) that satisfies the mathematics Colonnade Quantitative Reasoning requirement must also be completed, as well as the indicated number of hours from each of the following categories. A "C" or higher is required in PSY 100, PSY 210, and PSY 211.

General Psychology (without Concentration): The general psychology major requires 34 hours. The following courses are required in addition to the core courses:

Applied Development and Behavior (3 hours): PSY 220 or PSYS 220, PSY 422, FACS 191, GERO 100

Foundations of Behaviors (3 hours): PSY 331, PSYS 333, PSYS 363, PSY 412, PSY 436, PSYS 450.

Group Behavior (3 hours): PSY 350, PSY 355, PSYS 370, PSY 371, PSY 470

Behavioral Change (3 hours): PSY 340, PSY 440, PSY 442, PSY 443, PSY 445.

Psychology Electives (9 hours): Any courses with at least 6 hours in courses numbered 300 or above in with the exception of PSY 175 or PSY 310.

Forensic Psychology Concentration: The forensic psychology concentration requires 40 hours. The following courses are required in addition to the core courses:

Applied Development and Behavior (3 hours): PSY 220 or PSYS 220, PSY 422 (recommended), FACS 191, GERO 100

Foundations of Behaviors (3 hours): PSY 331, PSYS 333, PSYS 363, PSY 412, PSY 436, PSYS 450.

Group Behavior (3 hours): PSY 350, PSY 355, PSYS 370, PSY 371, PSY 470

Behavioral Change (3 hours): PSY 340, PSY 440, PSY 442, PSY 443, PSY 445.

Forensic Psychology Concentration Courses (9 hours): PSY 350, PSY 440, PSY 470 (Note: Concentration courses may not be counted as category courses).

Restricted Electives (6 hours): CRIM 101, CRIM 456, PHIL 211, PS 220.

Sport Psychology Concentration: The sport psychology concentration requires 53 hours. The following courses are required in addition to the core courses:

Applied Development and Behavior (3 hours): PSY 220 or PSYS 220, PSY 422, FACS 191, GERO 100

Foundations of Behaviors (3 hours): PSY 331, PSYS 333, PSYS 363, PSY 412, PSY 436, PSYS 450.

Group Behavior (3 hours): PSY 350, PSY 355, PSYS 370, PSY 371, PSY 470

Behavioral Change (3 hours): PSY 340, PSY 440, PSY 442, PSY 443, PSY 445

Sport Psychology Concentration Courses (9 hours): PSY 340, PSY 412, PSY 440 (Note: Concentration courses may not be counted as category courses.)

Additional Required Courses (19 hours): BIOL 131, PE 122, PE 311, PE 313, HMD 211, HMD 364.

Minor in Clinical and Community Behavioral Health

Reference Number: 436
Minimum Hours for Minor: 21

The minor in Clinical and Community Behavioral Health is an interdisciplinary minor that contributes to the preparation of students who are interested in careers in the mental health field and human services sector. The minor requires 21 hours, 12 of which must be from Psychology.

To fulfill the minor requirements, students must take the following:

- Required Introductory – Psychology (3 hours): PSY 100, PSY 220, or PSY 250
- Requires Introductory – Related Disciplines (6 hours from separate fields): CNS 110, FACS 191 or FACS 297, SWRK 101 or SWRK 205, GERO 100, REC 220.
- Required Community Connections (3 hours): PSY 390, PSY 470, PSY 346, SWRK 326, SWRK 356, SWRK 436.
- Principles of Mental Health (9 hours; at least 6 must be from Psychology): PSY 355, PSY 412, PSY 422, PSY 440, PSY 441, PSY 442, PSY 443, PSY 445, FACS 311, FACS 391, FACS 492, FACS 494, FACS 495, FACS 496, GERO 461, CNS 432.

Minor in Psychology

Reference Number: 438
Minimum Hours for Minor: 21

The minor in psychology requires a minimum of 21 semester hours including PSY 100. The minor program is designed by the student with the approval of the student's advisor. At least twelve hours of the coursework must be in upper-division courses (numbered 300 or above).

Graduate Programs – Graduate training can prepare psychology graduates for teaching careers in colleges or for other professional careers. A master's degree is usually the minimum level of training for teaching positions in higher education or licensure as a practicing psychologist. For students who wish to pursue professional training beyond the undergraduate level, WKU offers a Master of Arts degree in Psychology, an Education Specialist degree (Ed.S.) in school psychology, and the Doctor of Psychology degree.

Specific information on each of the above programs may be obtained by contacting the Department of Psychology, by consulting The Graduate School's website (www.wku.edu/graduate) , or on the departmental web site: http://www.wku.edu/psychology. Financial support is available for outstanding graduate students.

School of Professional Studies

Dr. Jeff Butterfield, Director

Tate Page Hall, 2nd Floor
Phone: (270) 745-8973
Email: professional.studies@wku.edu
Website: www.wku.edu/professionalstudies

Associate Professors: J. Baker, G. Kontos, M. Staynings
Assistant Professors: S. Ghezal, K. Guffey
Instructor II: C. Basham, J. Fulkerson, A. Heinzman, S. McCaslin

The School of Professional Studies offers a variety of career-oriented programs and flexible interdisciplinary baccalaureate and associate degrees. The School offers academic programs in organizational leadership, business studies, paralegal studies, real estate, and interdisciplinary studies.

The School of Professional Studies is also home to University Experience, WKU's non-discipline specific first-year experience course. The School is heavily engaged in educational outreach and offers programs at the three WKU's regional campus sites and in on-line, hybrid, and face-to-face formats. Additionally, the school places a strong emphasis on partnerships between WKU and community colleges (KCTCS and other two-year institutions). The academic programs within the school share a common emphasis on the delivery of transfer-, military-, and adult-friendly academic programs.

Major in Interdisciplinary Studies

Program Coordinator: C. Basham

Reference Number: 558
Minimum Hours for Major: 36

Minimum Hours for Degree: 120
Degree: Bachelor of Interdisciplinary Studies

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/uc/bis_all_concentrations_558.pdf

The Bachelor of Interdisciplinary Studies (BIS) degree provides an academic alternative to a traditional major program. The integration of studies within an overarching emphasis (complementary courses from different disciplines or academic programs) allows considerable latitude and flexibility to satisfy individual interests and needs. The student must complete an emphasis of at least 36 semester hours. These hours will include a capstone course (student may choose from IDST 495 or IDST 499).Students wishing to earn a minor as a secondary area of study must meet the published requirements for that minor. Courses in the minor may not duplicate those used to satisfy the emphasis in the BIS.

The 12 broad areas of emphasis for the Interdisciplinary Studies degree program include: Arts, Business, Education, Health, Humanities, Military Studies, Organization and Communication of Ideas, Social and Behavioral Science, Social Justice and Equity Studies, Sustainability, and Technology.

Students also have the option of requesting a broad area of emphasis not listed above. The written request, based on specific individual objectives, must be made by the student and approved by a BIS advisor, SPS Director, and the Dean of the College.

Minimum Academic Requirements for the Bachelor of Interdisciplinary Studies

- 36 hours in the Area of Emphasis
- 42 hours of upper-level credits, including 12 upper-level hours in the Area of Emphasis
- No more than 24 semester hours in a single academic discipline, no more than 24 semester hours from the School of Journalism & Broadcasting, no more than 30 semester hours in courses administered by the Gordon Ford College of Business, no more than 12 upper-level semester hours from the Gordon Ford College of Business.

Major in Organizational Leadership

Program Coordinator: J. Baker

Website: www.wku.edu/leadership

Reference Number: 545
Minimum Hours for Major: 48

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/uc/org_leadership_545.pdf

The Bachelor of Science in Organizational Leadership provides an academic foundation for the professional and career-focused study of leadership principles and skills. It is specifically designed to advance the professional objectives of students who desire to complete a baccalaureate degree for career advancement and expanded job opportunities. The combination of leadership, management, and global and social-cultural perspectives provides graduates with the knowledge and skills necessary to provide effective leadership at various levels and in a variety of occupational settings.

This degree program requires a minimum of 48 semester hours: 24 hours in the leadership core plus 24 hours in identified electives. Students must meet all University requirements for admission, continuance in the program, and graduation. Students admitted to the Bachelor of Science in Organizational Leadership must have previously earned an associate's degree from a regionally-accredited program or have attained junior status.

Students must complete the following courses for the organizational leadership major: LEAD 200 or LEAD 300, LEAD 325, LEAD 330, LEAD 395, LEAD 400, LEAD 440, LEAD 450, and LEAD 465. The remaining 24 hours may be chosen from: ACCT 200 or ACC 200C or ACCT 201 or ACC 201C, AMS 390; AMS 430; BA 110; BCOM 201; BE 350; BUS 210C, BUS 212C, BUS 257C; COMM 240, COMM 463, COMM 330; ECON 206; ENG 306; ENT 308, ENT 312, ENT 425, ENT 463; FIN 330; HCA 340, HCA 342, HCA 344, HCA 346, HCA 442; IDST 395; MGT 200, MGT 210, MGT 301, MGT 303, MGT 305, MGT 311, MGT 313, MGT 314, MGT 316, MGT 326, MGT 333, MGT 361, MGT 383, MGT 400, MGT 411, MGT 413, MGT 417, MGT 419; MKT 220, MKT 321, MKT 322, MKT 323, MKT 324, MKT 325, MKT 331, MKT 420, MKT 421, MKT 422, MKT 423, MKT 424, MKT 425, MKT 491; PLS 200C; PS 311, PS 338, PS 355, PS 493; PSY 350, PSY 355, PSY 371; PSYS 350, PSYS 370; REC 302, REC 460; SOCL 360, SOCL 375; SPS 300; 6 advisor approved professional electives from previous program/degree; any LEAD electives.

The following restrictions apply to this major: no more than 24 semester hours from the School of Journalism and Broadcasting; no more than 30 hours in courses administered by the Gordon Ford College of Business; no more than 12 upper-level semester hours from the Gordon Ford College of Business.

Students who transfer to WKU with an applied associate degree (e.g., Associate of Applied Science) receive a 12-hour waiver from the overall upper-level course requirement.

Major in Workforce Administration

Program Coordinator: S.Ghezal
Phone: 270-745-8973
Website: http://www.wku.edu/wfa

Reference Number: 739P (seeking admission)
739 (officially admitted)
Minimum Hours for Major: 48

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: https://www.wku.edu/degreepaths/18-19/documents/cebs/workforce_admin_729.pdf

Workforce Administration (WFA) is an interdisciplinary major offered through the College of Education and Behavioral Sciences. Workforce Administration prepares students for professional careers in a wide variety of fields. WFA applies a professional perspective to the management of people, information, processes, and projects. WFA majors compliment their studies with elective courses drawn from a variety of professional areas.

The WFA degree requires 120 credit hours and leads to a Bachelor of Science degree. No minor or second major is required.

All students complete the eight-course (24-hour) core curriculum consisting of WFA 300, WFA 346, WFA 347, WFA 348, WFA 443, WFA 444, WFA 446, and WFA 447. Each student also completes at least one five-course (15-hour) concentration. Students must also complete 9 hours of relevant electives to be selected in consultation with the advisor.

Transfer students who have completed professional coursework should petition the department with information about courses taken and what substitutions are being sought. Petitions will be reviewed by a facility committee and recommendations approved by the director and dean of the college in a manner consistent with WKU guidelines. Students who transfer to WKU with an applied associate degree (e.g., Associate of Applied Science) receive a 12-hour waiver from the overall upper-level course requirement.

Core Requirement completed by all majors: 24 hours: WFA 300, WFA 346, WFA 347, WFA 348, WFA 443, WFA 444, WFA 446, and WFA 447.

Electives: 24 hours: Electives include 9 hours of relevant electives completed in consultation with advisor, and a 15-hour concentration from one of the following areas:

Administrative Systems: COMM 346, COMM 349, COMM 362, COMM 260, ENG 306, AD 240, BE 350, BE 362, PSYS 370, PSY 371; additionally, any course that may be used to satisfy the minor in business administration (see GFCB minor). Note: no more than 12 hours of upper-division electives may be taken from the College of Business course offerings.

Agricultural Systems: AGRI 108, AGRI 280, AGRI 291, AGRI 494, AGRO 110, ANSC 140, AGMC 170, AGMC 171, AGEC 360

Criminology Systems: CRIM 232, CRIM 330, CRIM 332, PS 328, and three hours of advisor approved upper division electives

Digital Media Technologies: CIS 320, BCOM 264, BCOM 366, BCOM 367, BCOM 480

Fire/Rescue Administration: (The following courses are offered through KCTCS.) FRS 104, FRS 105, FRS 201, FRS 1027, FRS 1047, FRS 2016, FRS 2026, FRS 2051, FRS 2071

Geographic Information Systems: GISC 316, GISC 317, GISC 417, GISC 419, GISC 443, GISC 477

Government Systems: PS 110, PS 338, PS 355, PS 412, ECON 420

Healthcare Informatics: HCA 340, HCA 342, HCA 343, HCA 344, HCA 346, HCA 347, HCA 442, HCA 445, HCA 446

Human Resource Development: AMS 310, COMM 260, PR 255, MGT 311, MGT 400, MGT 411, MGT 414, MGT 416, MGT 473, PSY 331, SOCL 312. Note: No more than 12 hours of upper-division electives may be taken from the College of Business course offerings.

Industrial/Manufacturing Systems: AMS 310, AMS 342, AMS 356, AMS 371, AMS 394, AMS 396, AMS 430

Information Systems: CIT 310, CIT 330 (or CIS 226), CIT 350, CIT 370, CIS 243, CIS 320, CIS 321

Law Enforcement Administration: (The following courses are offered through KCTCS.) CRJ 201, CRJ 204, CRJ 210, CRJ 215, CRJ 216, CRJ 217, CRJ 222

Leadership: LEAD 200, LEAD 325, LEAD 330, LEAD 395, LEAD 400

Military Systems (Civilian Career Option): MIL 301, MIL 302, MIL 401, LEAD 200, LEAD 475, (ROTC students may take MIL 402)

Occupational Safety and Health: ENV 120, ENV 221, ENV 321, ENV 322, ENV 375, ENV 380, ENV 410, ENV 423, ENV 460, ENV 474, ENV 480, PH 385

Technical Sales: MKT 325, MKT 328, MKT 424, MKT 425, PSY 371

Technical Training: MGT 473, COMM 345, COMM 346, COMM 349, PSY 331

Technical Writing: ENG 301, ENG 306, ENG 307, ENG 401, ENG 415

Minor in Organizational Leadership

Program Coordinator: J. Baker

Reference Number: 431
Minimum Hours for Minor: 18

The minor in Leadership Studies requires 18 semester hours and is applicable to any undergraduate student desiring a minor. Students must earn a grade of "C" or above in the following courses required for this minor: LEAD 200 or LEAD 300, 15 hours from: LEAD 325, LEAD 330, LEAD 395, LEAD 400, LEAD 440, LEAD 450, LEAD 465, or LEAD EL (no more than 6 hours). *Students earning a minor in Organizational Leadership are ineligible for the certificate in Organizational Leadership.*

Associate Degree in Business (A.A.)

Program Coordinator: S. Ghezal
Phone: 270-745-8973

Website: www.wku.edu/sps/business_studies.php

Reference Number: 288

Minimum Hours for Degree: 60
Degree: Associate of Arts

The associate degree in business is a two-year program that quickly prepares students for employment in a variety of professional settings. Graduates may also complete a baccalaureate degree in several related areas.

The Business degree program requires a minimum of 60 hours including 15 hours of Colonnade Requirements, a business core of 24 credit hours, and concentration in one specialization from the following: Business Management, Business Management Preparation, Management Information Systems, Leadership, Office Management and Supervision, or Real Estate. Please check with your academic advisor for specific requirements.

The 24 credit-hour core required of all Business students includes: ACC 200C, ACC 201C, CSCI 145C, BUS 100C, FINC 161C, BUS 210C, BUS 212C, and BUS 253C. The 15 hours of Colonnade (general education) are: ENGL 100C, COMM 145 (students are encouraged to take the business and professional sections of this course), an Arts and Humanities Foundations or Explorations course, a Social and Behavioral Science Foundations or Explorations course, and MA 116C OR MA 109C.

Business Management Concentration of the Business Degree: requires the following courses in addition to the core courses and Colonnade courses required of all Business students: BUS 102C, BUS 214C, BUS 245C, BUS 248C, BUS 250C, BUS 257C, and BUS 270C.

Business Management Preparation Concentration of the Business Degree: requires the following courses in addition to the core courses and Colonnade courses required of all Business students: BUS 214C, BUS 257C, MGMT 200C, ECO 206C, and nine hours of advisor approved 300-level courses (MGT, MKT, FIN, ECON, or ENT).

Leadership Concentration of the Business Degree: requires the following courses in addition to the core courses and Colonnade courses required of all Business students: 21 hours consisting of BUS 214C, BUS 245C, BUS 248C, BUS 257C, LEAD 200, and six hours of 300-level or above Leadership courses.

Management Information Systems Concentration of the Business Degree: requires the following courses in addition to the core courses and Colonnade courses required of all Business students: INS 181C, INS 182C, INS 270C, INS 272C, INS 275C, and two advisor-approved INS electives. (Internship strongly recommended.)

Office Management and Supervision Concentration of the Business Degree: requires the following courses in addition to the core courses and Colonnade courses required of all Business students: BUS 102C, BUS 214C, BUS 225C, BUS 245C, BUS 248C, BUS 254C, and BUS 257C.

Real Estate Concentration of the Business Degree: requires the following courses in addition to the core courses and Colonnade courses required of all Business students: RE 170C, RE 171C, RE 272C, RE 273C, RE 274C, 3 hour Real Estate elective and a 3 hour Business elective. (BUS 230C-Internship strongly recommended.)

Interdisciplinary Studies (A.I.S.)

Program Advisor: Linda Brumit
Phone: 270-745-8973

Reference Number: 246

Minimum Hours for Degree: 60
Degree: Associate of Interdisciplinary Studies

The Associate of Interdisciplinary Studies degree is designed for those who need or desire a flexible degree program. Within the limits specified for the degree, students, with their advisors, may design programs to suit their personal needs and educational objectives.

This program requires 60 credit hours of coursework. Students who have previously earned 60 hours of credit with a 2.0 cumulative grade point average or above in all higher education coursework, including all coursework completed at Western Kentucky University, and have met all other requirements for the degree, may apply as candidates for the AIS degree. If, upon evaluation of their transcripts, such students meet all the requirements for the degree, the degree will be awarded at the next graduation ceremony.

Opportunities – The Associate of Interdisciplinary Studies degree has become more attractive with the growth of business and industry in the area and with the increase of minimum educational requirements for employment or promotion. In addition to those wishing to enhance their employability, several other groups of students will find the program suits their needs. These include those who are seeking a degree for their personal satisfaction; those who plan eventually to move on to the main campus, but wish to have a degree at the two-year level; and those who wish to consolidate previously-earned credits into a degree program.

Program Requirements − Minimum requirements for the AIS degree are 60 semester hours distributed among the WKU Colonnade courses and two "areas of emphasis." A total of 21 hours of Colonnade courses, 27 hours in the areas of emphasis, and 12 hours of electives is required. The areas of emphasis must total 27 hours with a minimum of 9 hours in each area. One third of the areas of emphasis must be earned at WKU. Areas of emphasis include: Arts, Humanities, Science, Business, Education, Technology, Health, Social and Behavioral Science, Organization and Communication of Ideas, and Social Justice and Equity Studies. A student must obtain a 2.0 grade point average in both areas of emphasis. An overall 2.0 grade point average is required to be awarded the AIS degree.

The Colonnade courses include:

- Written Communication: ENG 100 (3)
- Oral Communication: COMM 145 or other approved course (3)
- Quantitative Reasoning (MATH 109, MATH 116, or other approved course) or Natural and Physical Sciences (3)
- Arts and Humanities: Literary Studies (ENG 200 or other approved course) and one Explorations AH Course (6)
- Social and Behavioral Sciences: World History (HIST 101 or HIST 102) and one Explorations SB Course (6)

Students seeking the AIS degree must complete a minimum of 25% of their degree program in residence at Western Kentucky University. Courses taken at WKU off-campus locations through regional campuses or through WKU OnLine are considered as having been taken in residence.

The Associate of Interdisciplinary Studies degree cannot be filed as a second degree program; as a result, students applying for concurrent or subsequent associate degrees must file the Associate of Interdisciplinary Studies as their primary degree program. Electives are in addition to the Colonnade courses and the areas of emphasis. They may come from Colonnade categories, or from courses that do not fall into any of the above Colonnade areas or the areas of emphasis.

Computer Literacy Certificate

Program Coordinator: G. Kontos

Reference Number: 1713
Minimum Hours for Certificate: 12

The Computer Literacy certificate provides the necessary skills for software use and the Internet. Students will gain the knowledge and skills that will help them become confident computer users. The emphasis will be on practical application of computers. Students should take the following four courses: CSCI 145C; OST 220C or INS 270C or INS 272C or INS 275C; INS 285C; and any advisor approved upper-division elective.

Information Systems Certificate

Program Coordinator: G. Kontos

Reference Number: 1714
Minimum Hours for Certificate: 18

The Information System certificate requires 18 hours and provides necessary skills for entry level positions in computer-related fields such as computer support specialist, information technology specialist, and network support specialist. Students should take the following courses in the recommended order: INS 181C, INS 275C, INS 281C, INS 285C, INS 288C, and any advisor approved upper-division elective.

Organizational Leadership Certificate

Program Coordinator: J. Baker

Reference Number: 1721
Minimum Hours for Certificate: 12

This program is designed for students who want to enhance their leadership knowledge and skills for current or future activities in a broad range of organizations. Various disciplines have addressed leadership and developed a substantial body of related literature. The introductory course (LEAD 200) will give students a systematic introduction to these various perspectives and theories of leadership. Students are required to take LEAD 200 or 300. In addition, students take nine hours of electives chosen from: LEAD 325, LEAD 330, LEAD 395, LEAD 400, LEAD 440, LEAD 450, LEAD 465, or LEAD EL-L (not more than 6 hours). Chosen electives build from LEAD 200/LEAD 300 and provide students an emphasis in various aspects of leadership. In the capstone course, students will be challenged to synthesize their understandings of leadership, articulate those understandings, and apply them in a demonstrable way that enhances their education and relates to their career and life goals.

The Organizational Leadership Program will provide special lectures, workshops, seminars, and interactions with visiting guest leaders who are renowned in their fields. In addition, the Organizational Leadership Program will work with certificate-seekers to identify opportunities for leadership participation and practice in their own professional or occupational fields.

Real Estate Certificate **Program Coordinator:** S. Ghezal

Reference Number: 195
Minimum Hours for Certificate: 27

The one-year program in Real Estate requires a minimum of 27 credit hours and leads to a certificate. Required courses are RE 170C, RE 171C, RE 172C, RE 272C, RE 273C, RE 274C, RE 275C, RE 276C, and RE 280C.

University Experience – Academic achievement and student success are top priorities at Western Kentucky University. Recognizing the importance of the first year in the overall undergraduate experience, University Experience (UC 175) provides academic support for first-year and transfer students and students in transition. This unit provides courses of instruction and programming to help students adjust to the college environment, improve their critical thinking, research, and learning skills, enhance their library and information literacy, and build a solid foundation for their academic and career endeavors.

The Peer Mentoring Program – The School of Professional Studies Peer Mentoring Program teaches students the leadership and teaching skills necessary to mentor college students enrolled in the University Experience courses or in other support programs. Students who are admitted to the program enroll in IDST 375 (3 credit hours) in the spring of their sophomore year in preparation for mentoring in the fall.

Graduate Programs – The School of Professional Studies offers the Master of Arts in Organizational Leadership and a Graduate Certificate in Organizational Leadership. For additional information, see www.wku.edu/graduate or contact the department.

Department of Counseling and Student Affairs

Dr. Jill Sauerheber, Head

Gary A. Ransdell Hall, Office 2011
Phone: (270) 745-4953; Fax: (270) 745-5031
Email: Counseling-StudentAffairs@wku.edu
Website: www.wku.edu/csa

The Department of Counseling and Student Affairs offers graduate courses and programs designed to prepare clinical mental health counselors, marriage, couple, and family counselors, school counselors, and student affairs professionals. Specific information about these programs can be obtained from The Graduate School's website (www.wku.edu/graduate), or see the departmental website at http://www.wku.edu/csa for the most current program information.

Department of Educational Administration, Leadership, and Research

Dr. Marguerita K. Desander, Head

Gary A. Ransdell Hall, Office 3086
Phone: (270) 745-4890; Fax: (270) 745-5445
Email: Ed.Administration@wku.edu
Website: www.wku.edu/ealr

The Department of Educational Administration, Leadership, and Research offers graduate courses and programs designed to prepare school personnel for effective leadership in elementary, secondary, and postsecondary school settings. The department also includes Educational Foundations faculty who teach courses in research methods, statistics, and other foundational courses for graduate level programs. Specific information about the graduate programs can be obtained from The Graduate School's website (www.wku.edu/graduate), or see the departmental website at http://www.wku.edu/ealr.

Ogden College of Science and Engineering

Ogden College Hall, Office 1017
Phone: 270-745-4449
Website: www.wku.edu/ogden
Email: ogdencollegedeansoffice@wku.edu

Dr. Cheryl Stevens, Dean
Cheryl.Stevens@wku.edu

Departments/School

- Agriculture
- Biology
- Chemistry
- Engineering and Applied Sciences
- Geography and Geology
- Mathematics
- Physics and Astronomy
- Psychological Sciences

Mission: The mission of Ogden College of Science and Engineering is to **empower** individuals to become leaders through academic achievement, global **connections**, and engagement in research, education and **service.**

Vision: Ogden College of Science and Engineering is a community of creative and critical thinkers achieving local to global impact.

Ogden College of Science and Engineering encompasses the applied and basic sciences, offering a broad range of degree programs in agriculture, biology, chemistry, computer science, construction management, engineering, geography, geology, architectural science, advanced manufacturing, mathematics, meteorology, physics, astronomy, and psychology.

We are recognized by the high quality and success of our students and graduates, which results from personal attention to student professional development through engagement with faculty in projects that expand on classroom instruction.

Ogden College is located on the campus of an earlier educational institution established in Bowling Green in 1877 as a provision in the will of Major Robert W. Ogden. The original Ogden College closed, and its properties were leased to WKU in 1928. The name Ogden reappeared when the Ogden College of Science and Technology was established within Western Kentucky University in 1965.

Students and faculty at WKU have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 114 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowships, scholarships, and research appointments; and to organize research alliances among its members. Programs cover a wide variety of disciplines including earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science and engineering related disciplines.

For more information about ORAU and its programs, contact: Dr. Cathleen Webb, Associate Dean of OCSE and the ORAU counselor for WKU.

Ogden College is home to the Health Professions Advisement Center (HPAC). WKU has an outstanding track record of students gaining entry to the health professions. At HPAC, students interested in attending a school or college of medicine, dentistry, pharmacy, physical therapy, occupational therapy, optometry, veterinary medicine, chiropractic medicine, podiatry or physician assistant, will receive information, advice and guidance on their preparation for admission to professional school.

In collaboration with the College of Education, Ogden College offers the SKyTeach Program for those interested in teaching science and math at middle or high school levels. This program is a replication of a nationally recognized program in teacher preparation developed at the University of Texas - Austin. WKU received $2.4 million in funding from Exxon/Mobil through the National Mathematics and Science Initiative to develop the SKyTeach program at WKU.

Those interested in more detailed information regarding programs offered by departments of the College should follow the links listed under departments or email the Dean of Ogden College of Science and Engineering directly.

SkyTeach

Dr. Les Pesterfield, Co-Director
Dr. Martha M. Day, Co-Director

Snell Hall B104
Phone: 270-745-3900; Fax: 270-745-2014
Email: Skyteach@wku.edu
Website: http://www.wku.edu/skyteach/

Master Teachers: David Almand, David Bell, Catherine Poteet, Melissa Rudloff, Rico Tyler

SKyTeach offers opportunities to undergraduate students at Western Kentucky University entering careers in mathematics and science education. SKyTeach is a unique collaboration between the College of Education and Behavioral Sciences and Ogden College of Science and Engineering, modeled after the highly successful UTeach program at the University of Texas at Austin. Students enrolled in the program complete four year degree programs leading to double majors in Science and Mathematics Education (SMED) and a content area major in middle grades mathematics, middle grades science, mathematics, chemistry, biology, physics, or earth/space science.

Major in Middle School Science

Reference Number: 734
Minimum Hours for Major: 30-31
Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://www.wku.edu/degreepaths/18-19/documents/cebs/middle_grade_science_734_774.pdf

The Middle School Science major is for students who plan to teach science in grades 5 through 9. The middle school science major also requires completion of the science and mathematics education (SMED) program. Upon successful completion of both majors, the student will earn a Bachelor of Science degree and will qualify for an institutional recommendation for a Kentucky Provisional Certificate for teaching in the middle grades (5-9) science field.

To major in Middle School Science, students must complete 30-31 semester hours of coursework with a “C” or higher in each course. All science courses must be completed with an average GPA of 2.75 or better.

Students must complete the following core courses: ASTR 104 or ASTR 106, BIOL 122/BIOL 123, GEOL 111/GEOL 113 or GEOL 112/GEOL 114, PHYS 201 or PHYS 231/PHYS 232, and SMED 360. Students must take three of the five following hours of upper-level science courses: ASTR 405, BIOL 303, CHEM 470, GEOL 305, or PHYS 410. In addition, students must take 3 hours of upper-level restricted elective course chosen from: BIOL 319/BIOL 322, BIOL 325, BIOL 326, BIOL 327, BIOL 334, BIOL 348, GEOG 471, GEOL 408, GEOL 310, GEOL 311, GEOL 325, GEOL 380, GEOL 405, SMED 300, SMED 400. Students must complete the following support courses: MATH 117 or MATH 136 or MATH 142, BIOL 120/BIOL 121, and CHEM 105/CHEM 106, or CHEM 120/CHEM 121.

Department of Agriculture

Dr. Fredrick DeGraves, Chair

Environmental Sciences & Technology Building, Office 269
Phone: 270-745-3151; Fax: 270-745-5972
Website: www.wku.edu/agriculture

Professors: L. Brown, B. Gilfillen, T. Willian, P. Woosley
Associate Professors: F. DeGraves, S. King, T. Kingery, M. Stone
Assistant Professors: H. Galloway, J. Gill, D. Gumirakiza
Instructor I: D. Berkshire, L. Galloway, C. Scudder
Clinical Assistant Professor: R. Dennis
Professor Emeritus: E. Gray
USDA Research Scientist: A. Netthisinghe

The complexity of the technological and financial structure of modern agriculture has made education increasingly important. It has also brought about a need for personnel to fill positions in various businesses and professions which support agriculture.

Processing and marketing of agricultural products and supplying of agricultural chemicals, machinery, seed, feed and other products require research, sales and service personnel who have met specific educational requirements. Governmental agencies which conduct research, extension, advisory and regulatory activities are staffed by highly trained agricultural personnel.

The Department of Agriculture strives to fill the needs of both the student who requires general technical knowledge for production agriculture and the student who needs more specialized training to pursue one of many careers. This is accomplished by offering specific curricula with enough flexibility to allow specialization within the curriculum.

Many students studying agriculture have urban backgrounds and lack farm experiences. The Department of Agriculture uses the University Farm and the Agricultural Exposition Center as integral parts of its laboratory and classroom instructional program to provide practical experiences. Internships and cooperative work experiences are encouraged for all students.

To complete the 120 semester hours required for a Bachelor of Science degree in agriculture, students must complete the basic curriculum and one of the concentrations. The basic curriculum includes the Colonnade Program and specialty support requirements as well as basic professional courses in agriculture. These concentrations are agribusiness, agricultural education, agronomy (plant science or soil science), animal science, horse science, dairy science, general agriculture, turf and golf course management, horticulture, and pre-veterinary. These concentrations allow students to vary their course selection to better meet their particular area of interest. The student, in consultation with an assigned advisor, will choose specific courses in addition to the basic curriculum.

When planning a program of study, students should be aware of the University academic requirements and regulations contained in this catalog in the chapter “Academic Information.” Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may include additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

Agriculture majors who follow the listed guidelines can graduate in 4 years (8 semesters) or less.

Guidelines

1. Be advised by an assigned faculty advisor in the Department of Agriculture each semester and enroll in the courses decided upon at the advising session.
2. Excluding remedial classes, receive a passing grade for an average of 15 hours per semester for 8 semesters with a minimum 2.0 GPA and a minimum total of 120 hours, including 42 or more hours upper-division (300- and 400-level) courses. Complete the Colonnade Program requirements of the department and the university. Note specific required mathematics, biology and chemistry courses.
3. Deviation from any of these conditions might lead to the need for additional hours / courses and / or semester in order to graduate.

Major in Agriculture

Reference Number: 508
Minimum Hours for Major: 50

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path Per Concentration:

Agronomy (Plant): http://wku.edu/degreepaths/18-19/documents/ocse/ag_agronomy_plant_science_508.pdf

Agronomy (Soil): http://wku.edu/degreepaths/18-19/documents/ocse/ag_agronomy_soil_science_508.pdf

Agribusiness: https://wku.edu/degreepaths/18-19/documents/ocse/agribusiness_508.pdf

Agricultural Education: http://wku.edu/degreepaths/18-19/documents/ocse/agriculture_education_508.pdf

Agricultural Systems: http://wku.edu/degreepaths/18-19/documents/ocse/ag_systems_508

Animal Science: https://www.wku.edu/degreepaths/18-19/documents/ocse/ag_animal_science_508.pdf

Dairy Science: http://wku.edu/degreepaths/18-19/documents/ocse/ag_dairy_sci_508.pdf

General Agriculture: http://wku.edu/degreepaths/18-19/documents/ocse/agriculture_general_508.pdf

Horticulture: http://wku.edu/degreepaths/18-19/documents/ocse/ag_dairy_sci_508.pdf

Horse Science: http://wku.edu/degreepaths/18-19/documents/ocse/ag_horse_sci_508.pdf

Turf and Golf Course Management: http://wku.edu/degreepaths/18-19/documents/ocse/ag_turf_golf_course_mgt_508.pdf

This major in Agriculture requires a minimum of 50 semester hours in agriculture and leads to a Bachelor of Science degree. Electives chosen from agriculture courses focusing on a concentration, when approved by an assigned advisor, complete the minimum total of 50 semester hours in agriculture. No other minor or major is required for the student following the curriculum for this major in agriculture. At least half of the semester hours in the major must be in courses numbered 300 or above.

All students must take the following courses outside of the major:

- Mathematics Course (3 hours): MATH 115 or higher (Note: Students focusing in Pre-Veterinary Medicine must take MATH 116 or higher)
- Chemistry Courses (6 hours): CHEM 105, CHEM 107, CHEM 120, or CHEM 222
- Chemistry Labs (2 hours): CHEM 106, CHEM 108, CHEM 121, or CHEM 223
- Biology Course and Lab (4 hours): BIOL 120, BIOL 121 (Note: Students pursuing the Horticulture Concentration may take BIOL 120 and BIOL 121 or BIOL 122 and BIOL 123.)

The following courses are required for each concentration.

Agribusiness Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494.
- Agribusiness Courses (18 hours): AGEC 261, MGT 210, MKT 220, AGEC 361, AGEC 362, AGEC 463
- Agribusiness Elective (3 hours): AGEC 366, AGEC 460, AGEC 461, AGEC 468, AGRI 369, AGEC 471, AGEC 391, AGEC 475

Agricultural Education Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494.
- *Agricultural Economics (3 hours):* AGEC 361
- *Soils Elective (3 hours):* Any AGRO course
- *Horticulture Elective (3 hours):* Any HORT course
- *Animal Science Elective (3 hours):* Any ANSC course
- *Agricultural Elective (3 hours):* Any AGRI, AGRO, ANSC, AGED, AGED, AGMC, or HORT course
- *Teacher Certification Requirements (32 hours):* AGED 250, PSY 310, SPED 330, AGED 470, AGED 471, AGRI 398, EDU 489, LTCY 421, SEC 490.

Agricultural Systems Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Agricultural Mechanization Courses* (18 hours)*:* AGMC 172/AGMC 173, AGMC 377/AGMC 378, AGMC 373/AGMC 374, AGMC 425, AGEC 366, AMS 227.
- *Agricultural Mechanization Elective (3 hours):* Choose 3 credit hours from any AGEC, AGED, AGMC, AGRI, AGRO, ANSC, or HORT course.

Agronomy (Plant Science) Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Agronomy – Plant Science Courses (20 hours):* AGRO 310, AGRO 352, AGRI 355, AGEC 361, AGRO 409, AGRO 410, AGRO 414, AGRO 418, AGRO 420, AGRO 421, AGRO 422, and AGRO 111 or AGRO 351
- *Agronomy Elective (3 hours):* AGRI 315, AGRI 493, AGRO 452, AGRO 454, AGRO 457, AGRO 458.

Agronomy (Soil Science) Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Required Agronomy Courses:* AGRO 351 (1 hour)
    - Four of the following courses: AGRO 352, AGRO 452, AGRO 454, AGRO 455/AGRO 456, AGRO 457/AGRO 458.
    - Two of the following courses: AGRO 310, AGRO 409/AGRO 410, AGRO 414, AGRO 420/AGRO 421, AGRO 422.

Animal Science Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Beef or Swine Courses (3 hours):* ANSC 442/ANSC 443 or ANSC 444/ANSC 445
- *Animal Science Courses (26 hours):* ANSC 141, ANSC 240, ANSC 241, ANSC 338, ANSC 340, ANSC 344, ANSC 347, ANSC 437, ANSC 438, ANSC 446, ANSC 447, ANSC 448.

Dairy Science Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494.
- *Dairy Science Courses (29 hours):* ANSC 141, ANSC 240, ANSC 241, ANSC 338, ANSC 340, ANSC 344, ANSC 347, ANSC 431, ANSC 432, ANSC 437, ANSC 438, ANSC 446, ANSC 447, ANSC 448.

General Agriculture Concentration

- *Basic Agriculture Courses (29 hours* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Agriculture Courses (21 hours):* Any AGEC, AGED, AGMC, AGRI, AGRO, ANSC, or HORT courses.

Horticulture Concentration

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Horticulture Courses (16 hours):* HORT 301, HORT 302, HORT 313, HORT 316, HORT 317, HORT 407, HORT 408, AGRI 369, AGRO 351
- *Electives (5 hours):* Any HORT, AGRO, AGEC, or AGRI courses

Horse Science Concentration

- *Basic Agriculture Courses (29 hours* AGRO 110, ANSC 140, AGEC 160, AGMC 170/AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494
- *Horse Science Courses (29 hours):* ANSC 141, ANSC 240, ANSC 241, ANSC 330, ANSC 331, ANSC 338, ANSC 340, ANSC 344, ANSC 347, ANSC 437, ANSC 438, ANSC 446, ANSC 447, ANSC 448

Turf and Golf Course Management

- *Basic Agriculture Courses (29 hours):* AGRO 110, ANSC 140, AGEC 160, AGMC 170 / AGMC 171, AGRI 175, AGMC 176, AGRI 291 or AGRI 491, AGRO 320 or ANSC 345 or AGEC 360 or AGMC 326, AGRO 350, AGRI 397, AGRI 398, AGRI 494.
- *Turf and Golf Course Management Courses (35 hours):* AGMC 172, AGMC 173, AGMC 270, AGMC 271, AGMC 272, AGMC 273, AGMC 371, AGMC 372, AGMC 392, AGMC 393, HORT 301, HORT 302, HORT 304, HORT 305, HORT 313, HORT 474, AGRI 369, AGRO 351, and AGEC 260 or HORT 475 (Sports Turf Management) or HORT 475 (Commercial Lawn Care Management)

Major in Agriculture

Reference Number: 605
Minimum Hours for Major: 30
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/agriculture_605.pdf

This major in agriculture requires completion of a minimum of 30 semester hours and leads to a Bachelor of Science degree. These hours must be taken in approved agriculture courses and a suitable major or minor(s) in other departments must be earned to total at least 54 approved semester hours. Agriculture courses required for a major are AGRO 110, AGRO 350, AGEC 360, ANSC 140, AGMC 170/AGMC 171, AGRI 291 or AGRI 491, AGRI 397, AGRI 398 and AGRI 494. Electives chosen by the student and approved by an assigned advisor provide sufficient credits to satisfy an option. In addition, majors are required to complete specified courses in biology, chemistry and mathematics. At least half of the semester hours in the major must be in courses numbered 300 or above.

Minor in Agriculture

Reference Number: 308
Minimum Hours for Minor: 21

The student must take the following courses: AGRI 494, AGRO 110, and ANSC 140. The student must choose 3 credit hours from the following courses: AGEC 360, AGRO 320, AGRO 350, or ANSC 345. The student must take 9 hours of Agriculture electives at the 300-level or above.

Minor in Floristry

Reference Number: 369
Minimum Hours for Minor: 21

The minor in floristry requires 21 hours and is meant to enhance majors such as business, horticulture, hospitality management, hotel restaurant management, and interior design. Students who elect the minor in floristry will develop skills needed to establish and manage a retail floral business, with emphasis on logistics, resources, marketing and risk management. Students should take the following courses: HORT 209, HORT 309, HORT 312, HORT 316, HORT 317, HORT 330, HORT 340, and HORT 420.

Associate Degree in Agricultural Technology and Management (A.S.)

Reference Number: 205

Minimum Hours for Degree: 60
Degree: Associate of Science

Turf and Golf Course Management Option
This program is designed for individuals interested in becoming superintendents of golf courses, athletic fields and parks and recreational facilities, lawn care professionals, and cemetery caretakers. The course of study includes the care and growing of warm and cool season grasses, turf disease management, and equipment management and maintenance. A total of 60 hours of specific courses are required for this program. Agriculture courses required for the turf and golf course management option in this degree are AGRO 110, AGRO 350, AGRO 170/AGRO 171, AGRO 172/AGRI 173, AGRO 270/AGRO 271, AGRO 272/AGRO 273, AGRO 371/AGRO 372, AGRO 392/AGRO 393, HORT 313. Also required are CHEM 105/CHEM 106, BIOL 120/BIOL 121, MATH 115 or MATH 116, an Arts and Humanities, a Social and Behavioral course, ENG 100 and COMM 145. The remaining hours will be fulfilled by elective courses approved by an advisor, with 10 hours taken from AGEC, AGRI, HORT, AGRO, and/or AGMC courses.

General Agriculture Option
This two-year curriculum is designed to fulfill the needs of students primarily interested in the application of modern agricultural technology. Agriculture courses required for the general option in this degree are AGRO 110, ANSC 140*, AGMC 170/AGMC 171, AGEC 360, AGRI 397, and AGRO 350. Also required are ENG 100, COMM 145, MATH 115 or MATH 116, CHEM 105/CHEM 106, a humanities, a social and behavioral course, and BIOL 120/BIOL 121. The remaining hours will be fulfilled by elective courses approved by an advisor, with 12 hours taken from Agriculture Economics, Agriculture, Horticulture, Agronomy, and/or Agriculture Mechanics. **Not required for Horticulture.*

Teacher Certification in Agricultural Education

Numerous job opportunities are available for students who have completed certification for teaching agriculture education in public schools at the middle or secondary level. A 2.5 minimum grade point average in agriculture, the Colonnade Program, and professional education is required for admission to teacher education. Students desiring to become certified to teach agriculture education in Kentucky public schools are required to have a minimum of 50 hours in agriculture including a minimum of 6 hours of plant/horticulture science, 6 hours of animal science, 6 hours of agricultural mechanics (AGMC 170/AGMC 171 and AGMC 371/AGMC 372), 6 hours of agricultural economics (AGEC 360 and AGEC 361), and 6 hours of soil sciences. Computer science requirement may be fulfilled by completing AGEC 365, CSCI 145C or CIS 141. Professional education courses required are AGED 250 (EDU 250), PSY 310, SPED 330, AGRI 398, AGED 470, AGED 471, EDU 489, LTCY 421 and SEC 490. Student must complete EDU 250, PSY 310, SPED 330, AGRI 398 before the fall semester of the senior year. AGED 470 and AGED 471 are taught the fall semester. EDU 489 and SEC 490 are completed the student teaching semester, usually the spring semester. Teachers hired in other states may be required to have other professional education coursework according to local regulations.

Graduate Program − The Department of Agriculture offers the Master of Science in Agriculture. For additional information, see www.wku.edu/graduate or contact the department.

Department of Biology

Dr. Bruce A. Schulte, Head

Thompson Complex, Central Wing, Office 359
Phone: 270-745-3696; Fax: 270-745-6856
Website: http://www.wku.edu/biology

Professors: C. Davis, S. Grubbs, S. Jacobshagen, R. King, D. McElroy, A. Meier, T. Philips, N. Rice, C. Rinehart, B. Schulte, M. Smith, M. Stokes
Associate Professors: L. Alice, N. Ashley, K. Crawford, C. Dick, C. Emani, S. Huskey, J. Johnson, P. Lienesch, A. Srivastava, D. Weisberger, R. Wyatt
Assistant Professors: S. Banga, K. Bilyk
Pedagogical Assistant Professors: K. McDaniel, N. Jones Mountjoy
Instructor I: R. Tembo
Instructor II: N. Sharma

Students interested in biology are presented with a variety of dynamic educational opportunities. These opportunities, involving diverse biological subdisciplines from molecules to ecosystems, challenge the students of biology in one of the most exciting eras of human history. The Department of Biology is dedicated to producing well-informed, scientifically literate graduates capable of applying the knowledge and skills acquired to ensure professional success and lifelong learning.

Undergraduate students collaborate with biology faculty on an array of interesting research topics. By applying what they have learned from time in the classroom to their involvement with research projects, students can more smoothly make the transition to professional and graduate programs and the work force. Modern classrooms and research laboratories, and the Potter-Nicely Outdoor Education Center and Green River Preserve provide outstanding settings for student research. The Biology Department is also proud to house the Biotechnology Center, Center for Biodiversity Studies, and Bioinformatics and Information Science Center. The centers are integral components of the WKU Applied Research and Technology Program, a state-funded program of distinction.

When planning a program of study in the Department of Biology each student must be aware of the University's academic requirements and regulations contained in this catalog in the section, "Academic Information." Specific attention should be given to the subsections entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic requirements and standards not specified in the catalog. To obtain a copy of these requirements, students should contact the department head. We offer four options for a B.S. degree: A Biology major without a minor (reference number 525), a Biology major with a minor (reference number 617), a Biochemistry major (reference number 519), a Molecular Biotechnology major (reference number 738), and a Medical Laboratory Science major (reference number 5004). Each is described below along with our minor in Biology, Joint Undergraduate-Master's Program (JUMP), Teaching Certifications, and other Special Programs.

Major in Biology

Reference Number: 525
Minimum Hours for Major: 48
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/biology_without_minor_525.pdf

This option for a major in Biology requires a minimum of 48 hours in biology with 24 hours at the 300 or higher level. No minor is required. A range of upper level courses are available in ecology and evolutionary biology, molecular and cellular biology, plant biology, animal biology, and microbiology. All students are required to complete BIOL 120/BIOL 121, BIOL 122/BIOL 123, each with a grade of "C" or better, and BIOL 489. In addition, students must select 11 hours of restricted elective coursework chosen from the following.

- BIOL 222/BIOL 223 or BIOL 224/BIOL 225 or BIOL 226/BIOL 227
- BIOL 319/BIOL 322 or BIOL 327/BIOL 337
- BIOL 315 or BIOL 316

Students must also select five laboratory experience courses chosen from: BIOL 212, BIOL 312, BIOL 321, BIOL 322, BIOL 324, BIOL 325, BIOL 326, BIOL 328, BIOL 331, BIOL 337, BIOL 348, BIOL 350, BIOL 356, BIOL 400, BIOL 404, BIOL 405, BIOL 412, BIOL 447, BIOL 450, BIOL 456, BIOL 457, BIOL 458, BIOL 460, BIOL 470, BIOL 472, BIOL 485, BIOL 496, BIOL 497.

Students must also select one science process course chosen from: BIOL 212, BIOL 312, BIOL 331, BIOL 350, BIOL 397, BIOL 404, BIOL 407, BIOL 412, BIOL 456, BIOL 457, BIOL 470, BIOL 472, BIOL 495, BIOL496, BIOL 497, or HON 404.

In consultation with their advisor, students select majors-level coursework to obtain a minimum of 48 credits total, provided that at least 24 hours total are upper-division courses. Students may count up to 6 credit hours of a combination of BIOL 369 and/or BIOL 399, and up to 4 credits of BIOL 485 toward this major.

Because an understanding of the principles of subjects outside of biology, in particular agriculture, chemistry, geography and geology, mathematics, physics and sociology is essential to the study of biology; majors are required to complete supporting courses as follow:

1. MATH 116 and MATH 117 or MATH 118 or higher
2. PHYS 231/PHYS 232 or PHYS 255/PHYS 256
3. CHEM 120/CHEM 121, and
4. Two courses from the following list: AGRO 350 and AGRO 452 or AGRO 454 or AGRO 455/AGRO 456 or AGRO 457/AGRO 458, BIOL 382, CHEM 222/CHEM 223, CHEM 314 or CHEM 340/CHEM 341, CHEM 330, CIS 243, CIS 226 or CS 146, GEOG 328, GISC 316, GISC 317, GISC 417, MATH 136, MATH 137, MATH 142, MATH 305, MATH 307, PHYS 332/PHYS 233 or PHYS 265/PHYS 266; SOCL 302.

Major in Biology

Reference Number: 617
Minimum Hours for Major: 36
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/biology_with_a_minor_617.pdf

This option for a major in biology requires a minimum of 36 semester hours in biology with 18 hours at the 300 or higher level plus the requirements of a minor area or a second major. The major-minor/second major combination must be at least 54 unduplicated semester hours. All students are required to complete BIOL 120/BIOL 121, BIOL 122/BIOL 123, each with a grade of “C” or better, and BIOL 489. In addition, students must select 11 hours of restricted elective coursework chosen from the following:

- BIOL 222/BIOL 223 or BIOL 224/BIOL 225 or BIOL 226/BIOL 227
- BIOL 319/BIOL 322 or BIOL 327/BIOL 337
- BIOL 315 or BIOL 316

Students must also select three laboratory experience courses chosen from: BIOL 212, BIOL 312, BIOL 321, BIOL 322, BIOL 324, BIOL 325, BIOL 326, BIOL 328, BIOL 331, BIOL 337, BIOL 348, BIOL 350, BIOL 356, BIOL 400, BIOL 404, BIOL 405, BIOL 412, BIOL 447, BIOL 450, BIOL 456, BIOL 457, BIOL 458, BIOL 460, BIOL 470, BIOL 472, BIOL 485, BIOL 496, BIOL 497.

Students must also select one science process course chosen from: BIOL 212, BIOL 312, BIOL 331, BIOL 350, BIOL 397, BIOL 404, BIOL 407, BIOL 412, BIOL 456, BIOL 457, BIOL 470, BIOL 472, BIOL 495, BIOL 496, BIOL 497, or HON 404.

In consultation with their advisor, students select majors-level coursework to obtain a minimum of 36 credits total, provided that at least 18 hours total are upper-division courses. Students may count up to 3 credit hours of a combination of BIOL 369 and/or BIOL 399, and up to 4 credit hours of BIOL 485 toward this major.

Because an understanding of the principles of subjects outside of biology, in particular agriculture, chemistry, geography and geology, mathematics, physics and sociology is essential to the study of biology, majors are required to complete supporting courses as follow:

1. MATH 116 and 117 or MATH 118 or higher
2. PHYS 231/PHYS 232 or PHYS 255/PHYS 256
3. CHEM 120/CHEM 121, and
4. Two courses from the following list: AGRO 350 and AGRO 452 or AGRO 454 or AGRO 455/AGRO 456 or AGRO 457/AGRO 458, BIOL 382, CHEM 222/CHEM 223, CHEM 314 or CHEM 340/CHEM 341, CHEM 330, CIS 243, CIS 226 or CS 146, GEOG 328, GISC 316, GISC 317, GISC 417, MATH 136, MATH 137, MATH 142, MATH 305, MATH 307, PHYS 332/PHYS 233 or PHYS 265/PHYS 266, SOCL 302.

Major in Molecular Biotechnology

Reference Number: 738
Minimum Hours for Major: 55
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/molecular_biotechnology_738.pdf

This major requires a minimum of 55 hours of molecular biotechnology – related courses in biology that involve subjects such as genome discovery, molecular biology, microbiology, bioinformatics and research experience or an internship, among others. At least 28 of these hours must be at the 300 or higher level. No minor is required. All students are required to complete: BIOL 120/BIOL 121, BIOL 122/BIOL 123, BIOL 212, BIOL 226/BIOL 227, BIOL 312, BIOL 319/BIOL 322, BIOL 327/BIOL 337, BIOL 350, BIOL 369 or BIOL 399, BIOL 382, BIOL 388, BIOL 411, BIOL 446, BIOL 447, BIOL 489. Students must also take BIOL 388 every semester for a minimum of 5 at 0 credit hours before being able to take the course for 1 credit hour in their last semester. In addition, students must take either BIOL 369 or BIOL 399.

Students must also select 10 credit hours of elective courses from: BIOL 222/BIOL 223 or BIOL 224/BIOL 225, BIOL 316, BIOL 328, BIOL 330, BIOL 331, BIOL 335, BIOL 400, BIOL 403, BIOL 404, BIOL 407, BIOL 412, BIOL 420, BIOL 440, BIOL 464, BIOL 467, BIOL 470, BIOL 490, BIOL 495, BIOL 496.

Because an understanding of mathematics, chemistry and physics is required for a full understanding of Molecular Biotechnology and because an understanding of workplace – related issues is important for a successful application of molecular biotechnology, students are required to complete the supporting courses of either MATH 117 or MATH 136, CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 340/CHEM 341 and CHEM 342/CHEM 343, PHYS 231/PHYS 232 and PHYS 332/PHYS 233, and of either AMS 371 or AMS 390 or AMS 430.

Major in Biochemistry

Reference Number: 519
Minimum Hours for Major: 60
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/biochemistry_519.pdf

Interested students should contact Dr. S. Jacobshagen, Department of Biology. For more information, see page 216 of this catalog for a list of courses.

Major in Medical Laboratory Science

Reference Number: 5004
Minimum Hours for Major: 83
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/medical_lab_science_5004.pdf

Interested students should contact Dr. K. McDaniel, Department of Biology. For more information, see page 217 for program information and a list of courses.

Minor in Biology

Reference Number: 326
Minimum Hours for Minor: 24

The minor in biology requires a minimum of 24 semester hours in biology with 12 hours at the 300 or higher level. The required courses are BIOL 120/BIOL 121 and BIOL 122/BIOL 123. Students, with the aid of their advisor, select additional biology courses to complete the minor. Students may count up to 3 credit hours of a combination of BIOL 369 and BIOL 399 and up to 4 credit hours of BIOL 485 toward this minor.

Food Science Certificate

Reference Number: 1724
Minimum Hours for Certificate: 12

The certificate in Food Science is designed for a student seeking a career in the food industry. The certificate requires 12 semester hours with 6 hours required as BIOL 336 and CHEM 306 and 6 hours of elective courses from the following list of courses: AGEC 360, AGEC 468, AGRI 101, AGRI 315, AGRI 493, AGRO 110, AGRO 311, AGRO 320, AMS 301, AMS 303, AMS 352, AMS 395, ANSC 140, ANSC 141, ANSC 340, BIOL 470, HMD 151, HMD 152, HMD 211, HMD 251, or a course approved by an advisor.

Secondary Teaching Certification in Biology
Students who wish to be certified to teach high school biology must complete both the major in Biology (reference number 525 or 617) and the major in Science and Mathematics Education (reference number 774), offered in the School of Teacher Education. Interested students should contact the SKyTeach Office, Snell Hall B104, 270-745-3900.

Middle Grades Science Certification
Students who wish to teach middle school science must complete both the major in Middle School Science Education (reference number 734), offered by Ogden College and SKyTeach, and the major in Science and Mathematics Education (reference number 774), offered in the School of Teacher Education. Interested students should contact the SKyTeach Office Snell B104, 270-745-3900.

Other Department Programs
Several other biologically oriented, specialized programs are available such as biophysics and environmental science, as well as several pre-professional programs. Specific details of these programs are listed under Pre-Professional and Interdisciplinary Programs.

Joint Undergraduate-Master's Program (JUMP)
For highly motivated students, especially those planning to pursue further graduate or professional study, the department offers a five-year JUMP program leading to both B.S. and M.S. degrees in biology. Completion of the M.S. portion of the program may require enrollment in summer terms during the fourth and fifth years. A key component of this program is early and sustained involvement in undergraduate research, beginning in the sophomore year. JUMP enrollees must have a 3.2 or higher GPA, and a minimum of 45 earned undergraduate hours, but no more than 90 earned hours to be considered for JUMP. As such, interested students must work closely with their undergraduate advisor early in their freshman or sophomore year to design their five-year JUMP plan and identify a faculty mentor and area of research. Contact the Biology Graduate Program Coordinator, Dr. Carl Dick, for more information.

Graduate Programs – Students interested in graduate study in biology should consult the The Graduate School's website at www.wku.edu/graduate for detailed information concerning the various programs available. For specific questions related to Biology, please contact Dr. Carl Dick or specifically for the non-thesis option, Dr. Chandra Emani.

The Department of Biology offers the following: (1) M.S. degree with a research thesis, especially attractive for students interested in a career in biology or in preparation for Ph.D. studies; (2) M.S. degree without a research thesis, often beneficial for career advancement or those working in the field of education (an online option for this degree path is available); (3) M.A.E. (Masters of Art in Education) with a specialization major in Biology (minor in Secondary Education) or a minor in Biology (major in Secondary Education). The M.A.E. in biology is designed to enhance the preparation of middle grades or secondary teachers of biology.

Department of Chemistry

Dr. Stuart Burris, Chair

College High Hall, Office 2116
Phone: 270-745-3457; Fax: 270-745-5361
Website: www.wku.edu/chemistry

Professors: S. Burris, Y. Cao, E. Conte, D. Dahl, L. Pesterfield, C. Stevens, C. Webb, K. Williams, R. Zhang
Associate Professors: J. Maddox, M. Nee, C. Skipworth, B. Yan
Assistant Professors: Y. Deng, L. Hill, M. Kim, B. Williams
Scholar-In-Residence: E. Stevens
Instructor II: A. Brooks, D. Wolfgang
Instructor I: S. Edwards
Professors Emeriti: D. Hartman, C. Henrickson, N. Hunter, W-P. Pan, J. Riley, L. Shank, D. Slocum, C. Wilkins

Mission Statement: WKU Chemistry empowers students of all backgrounds to think critically about the molecular sciences and promotes a vibrant regional economy through training, public service, and industrial collaboration. We ignite a spirit of life-long learning through engaged classroom and laboratory instruction, hands-on experience in nationally recognized research, and direct mentoring by faculty. This enables our students to define their own career path and to make an impact both locally and globally.

Chemistry is often described as “The Central Science” in today’s technology-driven world. Chemistry plays an important role in the research, development, and quality assurance of products and materials ranging from pharmaceuticals and polymers to ceramics and nanocomposites. Knowledge and understanding of fundamental chemical concepts are crucial to success in professions such as medicine, pharmacy, veterinary medicine, forensic science, environmental science, engineering, medical laboratory science, physical therapy, nursing, patent and environmental law, and science education.

In order to best serve such a diverse audience, the chemistry curriculum at Western Kentucky University offers an integrated series of lecture and laboratory courses. Our courses provide students with grounding in theoretical models balanced with real-life applications and hands-on laboratory experiences. This allows students to achieve an understanding of chemical and physical phenomena at the molecular level and to develop the critical thinking skills necessary for chemical problem solving. In addition to coursework, the Department of Chemistry provides our undergraduates a wide variety of research opportunities from biochemistry to materials science. Research encourages students to continue building their laboratory skills and scientific knowledge while working one-on-one with a faculty member. Undergraduate research students often present their research at both regional and national professional meetings. The combination of lecture, laboratory and one-on-one faculty interaction allows students to develop the skills necessary to be successful in their chosen profession.

As part of the educational experience, students are routinely trained in the operation of state-of-the-art instrumentation in the academic and research laboratories. The Department has extensive holdings of instrumentation, including atomic spectrometers, calorimeters, electrochemical analyzers, elemental analyzers, gas chromatographs, FTIR spectrometers, ion chromatographs, mass spectrometers, spectrofluorophotometers, UV-visible spectrophotometers, a Nd-YAG laser system, a 500 MHz nuclear magnetic resonance spectrometer, and a 90 MHz fixed magnet NMR.

Colonnade Program requirements for students majoring outside the sciences can be satisfied by CHEM 101, CHEM 109, or CHEM 111, where only one semester of chemistry is needed, or by the sequences CHEM 105/CHEM 106, CHEM 107/CHEM 108 or CHEM 120/CHEM 121, CHEM 222/CHEM 223, where two semesters of chemistry are desired.

Biochemistry courses (CHEM 446, CHEM 447, CHEM 462, and CHEM 467) are also offered as part of the curriculm. CHEM 446 is required for the major approved by the American Chemical Society. Biochemistry is also strongly recommended for pre-medicine and pre-dentistry students, and for biology majors desiring a second major in chemistry.

When planning a program of study in Chemistry, each student should be aware of the University’s academic requirements and regulations contained in the “Academic Information” chapter of this catalog. Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the Department Chair.

Major in Chemistry

Program Coordinator: S. Burris

Reference Number: 623
Minimum Hours for Major: 33-53

Minimum Hours for Degree:120-123
Degree: Bachelor of Science

Sample Degree Path for Concentration:
ACS Approved: http://wku.edu/degreepaths/18-19/documents/ocse/chemistry_acs_623.pdf

General: http://wku.edu/degreepaths/18-19/documents/ocse/chemistry_general_623.pdf

Foundations: http://wku.edu/degreepaths/18-19/documents/ocse/chemistry_foundations_623.pdf

Teacher Certification: http://wku.edu/degreepaths/18-19/documents/ocse/chemistry_teaching_cert_623.pdf

The major in chemistry requires a minimum of 33 semester hours and leads to the Bachelor of Science degree. Requirements of the major include selecting one of four concentrations. A second major or minor or the ACS-Approved Concentration is also required. The department offers four concentrations that lead to a Bachelor of Science degree in chemistry. The most common are the American Chemical Society (ACS) Approved Concentration, typically for those desiring graduate education in chemistry and the General Chemistry Concentration, typically for pre-health profession students with a double major. The third concentration (Foundations) is for those students who only desire a minor instead of a second major. The fourth concentration is for students desiring Teacher Certification in Chemistry. Prior to a selection of a program of study a student should consult with a chemistry advisor to determine the most appropriate option.

ACS Approved Concentration
WKU is on the approved list of the Committee on Professional Training of the American Chemical Society. For the Chemistry Department to certify graduates in this concentration, the completion of a minimum of 53 hours of chemistry courses, 16-18 hours of math and science cognate courses, and the Colonnade general education courses for the Bachelor of Science is required. Required chemistry courses for the ACS Approved concentration are CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 320, CHEM 330, CHEM 340/CHEM 341, CHEM 342/CHEM 343, CHEM 398, CHEM 399 (2 hours), CHEM 420/CHEM 421, CHEM 435/CHEM 436, CHEM 446, CHEM 450/CHEM 451, CHEM 452/CHEM 453. Required support courses are MATH 136, MATH 137, PHYS 231/PHYS 232 or PHYS 255/PHYS 256, PHYS 322/PHYS 233 or PHYS 265/PHYS 266.

It is recommended that CHEM 330 be taken as soon after CHEM 222 as possible. It is also recommended that physical chemistry, CHEM 450/CHEM 451, CHEM 452/CHEM 453, be taken in the junior year because CHEM 450 is a prerequisite for CHEM 420.

Students whose high school preparation in mathematics makes them initially ineligible for MATH 136 should consult their academic advisor for the proper first course in mathematics. It is recommended that students in this program take MATH 237, MATH 307 and MATH 331 in addition to the minimum math requirements listed above.

General Chemistry Concentration
The requirements for the General Chemistry Concentration include (33 hours): CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 330, CHEM 340/CHEM 341, CHEM 342/CHEM 343, CHEM 320 or CHEM 446, CHEM 412 or CHEM 450/CHEM 451. Additional required courses (8-9 hours): MATH 136, PHYS 231/PHYS 232 or PHYS 255/PHYS 256. A second major is required for this concentration.

The General Chemistry Concentration is recommended for pre-profession students majoring in chemistry and other students who desire a double major. It is recommended that CHEM 330 be taken as soon after CHEM 222 as possible. Prerequisites for CHEM 412 are CHEM 314 or CHEM 340, CHEM 330, MATH 136, and PHYS 231 or PHYS 255, all with a grade of C or better. Students should be aware of this and plan accordingly.

Foundations Concentration
The requirements for the Foundations Chemistry Concentration include (37 hours): CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 320, CHEM 330, CHEM 340/CHEM 341, CHEM 342/CHEM 343, CHEM 398, CHEM 446, CHEM 412 or CHEM 450/CHEM 451. Additional required courses (8-9 hours): MATH 136, PHYS 231 / PHYS 232 or PHYS 255/PHYS 256. A minor or second major is required for this concentration.

It is recommended that CHEM 330 be taken as soon after CHEM 222 as possible. Prerequisites for CHEM 412 are CHEM 314 or CHEM 340, CHEM 330, MATH 136, and PHYS 231 or PHYS 255, all with a grade of C or better. Students should be aware of this and plan accordingly.

Chemistry Major with Teacher Certification Concentration
Students interested in teaching chemistry must declare a second major in Science and Mathematics Education (SMED) available through the College of Education and Behavioral Sciences. The following chemistry courses (35 hours) are required for the chemistry major: CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 314, CHEM 320, CHEM 330, CHEM 399 (2 hours), CHEM 412, CHEM 446, CHEM 447. Required support courses are MATH 136, PHYS 231/PHYS 232, PHYS 332/PHYS 233, GEOL 111/GEOL 113. The following courses (37 hours) are required for the SMED major: SMED 101, SMED 102, SMED 310, SMED 320, SMED 340, SMED 360, SMED 470, SMED 489, SPED 330, SEC 490, and LTCY 421.

It is recommended that CHEM 330 be taken as soon after CHEM 222 as possible. Prerequisites for CHEM 412 are CHEM 314 or CHEM 340, CHEM 330, MATH 136, and PHYS 231 or PHYS 255, all with a grade of C or better. Student should be aware of this and plan accordingly.

Major in Biochemistry

Reference Number: 519
Minimum Hours for Major: 60
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/biochemistry_519.pdf

A BS degree in biochemistry requires a minimum of 60 credit hours and consists of core chemistry and biology courses with electives selected from chemistry, biology, agriculture and physics. For more information, see “Biochemistry” on page 222 for a list of courses and more information.

Minor in Chemistry

Program Coordinator: K. Williams

Reference Number: 335
Minimum Hours for Minor: 20

The minor in chemistry requires a minimum of 20 hours, including CHEM 120, CHEM 121, CHEM 222, CHEM 223, CHEM 330, CHEM 340, and CHEM 341. At least ten semester hours must be earned in courses numbered 300 and above and at least one upper-division laboratory-based course must be taken in residence at the WKU Bowling Green campus.

Minor in Nutritional and Food Chemistry

Program Coordinator: S. Burris

Reference Number: 421
Minimum Hours for Minor: 18

The minor in nutritional chemistry requires a minimum of 18 hours, including 12 hours of required courses and at least 6 hours of elective courses to be selected in consultation with an advisor. The required courses are CHEM 105, 106, 107, 108, and 304. Students must choose at least 6 hours from: CHEM 299, CHEM 314; HMD 211, HMD 360; AMS 301, AMS 303, AMS 352, AMS 381, AMS 443, AMS 462; BIOL 207, BIOL 208; AGEC 468. At least half of the credits must be at the upper-division level.

Joint Undergraduate Master's Program (JUMP)

Students may obtain both an ACS-Approved Bachelor of Science in either Chemistry or Biochemistry and a Master of Science in Chemistry concurrently within five years. Interested students can apply prior to completion of 90 hours of undergraduate credits. The Joint Undergraduate Master's program is an exciting opportunity for students who excel academically. Qualified students who have been admitted to JUMP may complete a maximum of 18 graduate hours as an undergraduate. Students should apply to The Graduate School upon, or before earning more than, 18 graduate hours. This will allow a student to accelerate advanced study while eliminating one year from the traditional route of separate BS and MS degrees. Contact the Chemistry JUMP Advisor or the Chemistry JUMP Coordinator for more information.

Graduate Programs − Graduate programs and the Master of Science and Master of Arts in Education with a minor in chemistry are available in the Department of Chemistry. Each year a number of graduate teaching assistantships are available for qualified graduate students. For additional information, see The Graduate School's website (www.wku.edu/graduate) or contact the Chemistry Graduate Program Coordinator.

School of Engineering and Applied Science

Dr. Stacy Wilson, Director

Building: COHH 2114
Phone: (270) 745-3251
Website: www.wku.edu/seas
E-mail: seas@wku.edu

Professors: G. Arbuckle, B. Askins, M. Atici, C. Byrne, M. Cambron, W. Campbell, R. Choate, M. Doggett, J. Ellis, J. Lenoir, K. Schmaltz, H. Wang, S. Wilson, Z. Xia, G. Xing, U. Ziegler
Associate Professors: S. Aly, F. Ashrafzadeh, W. Collett, J. Gary, J. Khouryieh, Q. Li, S. Palmquist, B. Reaka, M. Revels, R. Yang
Assistant Professors: T. Alyousef, M. Galloway, B. Haddad, K. Haleen, O. Mansour, Y. Mowafi, M. Nursheshmeh, F. Orooji, A. Rezaslotani
Professor Emeritus: T. Leeper, G. Mills, J. Russell
Instructor I: I. Abumuhfouz, M. Chidurala, B. Janes, E. Martelli, J. Wilson
Instructor II: G. Smith

Modern society continues to become more dependent on technology. Personal and portable technologies provide people with more capability and connectivity worldwide. Homes become smarter as the number of connected devices grows. The manufacturing process becomes progressively more sophisticated as the technical requirements increase. To meet these challenges, industry must have access to students who not only have a strong foundation in their discipline but also can apply this knowledge to solve real problems.

The focus of the new WKU School of Engineering and Applied Sciences (SEAS) is to educate students to be leaders in a changing technical landscape, to provide solutions to the problems facing the modern high tech society, and to provide a workforce to support the technological complexity of industry.

In order to provide students with the necessary skills, the programs in the School of Engineering and Applied Sciences are project-based which means that students have opportunities to engage in project activities throughout the curricula to support design, development, implementation, and troubleshooting.

The School of Engineering and Applied Sciences offers Bachelor of Science degrees in the following areas:

- Architectural Science (reference number 518)
- Civil Engineering (reference number 534)
- Computer Information Technology (reference number 555)
- Computer Science (reference number 629)
- Construction Management (reference number 533)
- Electrical Engineering (reference number 537)
- Manufacturing Engineering Technology (reference number 5006)
- Mechanical Engineering (reference number 543)
- Technology Management (reference number 575)

The School of Engineering and Applied Sciences offers minors in computer science (reference number 341), construction management (reference number 343), electrical engineering (reference number 354), industrial sciences (reference number 395), land surveying (reference number 405), systems engineering (reference number 476), and floodplain management (reference number 361), as well as an associate degree in vocational/industrial and technical teacher education. SEAS also offers certificates in automation (reference number 1726), food processing and technology (reference number 1718), land surveying (reference number 1700), manufacturing and logistics (reference number 1727), manufacturing processing and technology (reference number 1728), six sigma and quality (reference number 1729).

The School of Engineering and Applied Sciences offers Master of Science degrees in computer science and engineering technology management and a graduate certificate in Lean Sigma.

Major in Architectural Science

Program Coordinator: S. Aly

Reference Number: 518
Minimum Hours for Major: 87

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/architectural_sciences_518.pdf

Architectural Science is a bridge between design theory and construction practice. Architectural Technologists perform a variety of important functions in many areas of the architectural and building construction fields and are widely recognized by professionals in the construction industry. Graduates find employment as drafters, designers, construction planners, estimators, inspectors, technical sales representatives, and many other exciting areas.

Career Opportunities: Graduates obtain employment in a wide variety of organizations: architectural firms, engineering firms, interior design firms, contractors, design-build construction firms, surveying firms, government agencies, construction product manufacturers, construction material suppliers, inspection and testing firms, specialty consultants, and computer applications consultants.

Program Description: The program in Architectural Science is designed to provide graduates with a practical architectural education combining an understanding of the philosophy of building design with an applied technical knowledge of construction systems and materials. Graduates are prepared with the knowledge and skills to assist in developing drawings and related documentation, constructing architectural models, developing architectural renderings, creating digital images and visualizations, preparing cost estimates and construction planning documentation, and making professional presentations.

Program instruction includes architectural drafting, construction methods and materials, design principles, environmental systems, building systems, building codes, structural principles, project management, sustainability, and professional presentations.

The major in Architectural Science leads to a Bachelor of Science degree. A minor or second major is not required. Course requirements for the major are shown below.

The following courses are required for the major: AMS 140, AMS 151, AMS 163, AMS 251, AMS 261, AMS 262, AMS 263, AMS 273, AMS 282, AMS 305, AMS 325, AMS 351, AMS 363, AMS 369, AMS 371, AMS 390, AMS 398, AMS 430, AMS 469, AMS 488, AMS 490A, CE 303, CE 304, ENG 306 or ENG 307, 9 hours of advisor-approved architectural science electives, and 3 hours of advisor-approved management electives.

Students are also required to take the following additional courses outside of the major: AMS 180, ECON 150/ECO 150C or ECON 202/ECO 202C or ECON 203/ECO 203C or ECON 375 or ECON 390, or MATH 117 these courses may fulfill Colonnade requirements.

Major in Civil Engineering

Program Coordinator: J. Wilson

Reference Number: 534P (seeking admission)
534 (officially admitted)
Minimum Hours for Major: 68

Minimum Hours for Degree: 129
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/civil_eng_534.pdf

Civil engineers design a better world in which to live. They design, build, and maintain our nation's infrastructure including: roads and bridges; buildings and foundations; water supply and waste-water facilities; storm water management systems; and environmental protection facilities.

The mission of the civil engineering program is to prepare students for professional engineering and management positions in all phases of civil engineering projects. The program provides a broad educational background with a foundation in basic engineering and business principles. These basic skills are complemented by advanced topics in engineering design, management, finance, computer applications, and real world civil engineering experiences throughout the baccalaureate degree program. The civil engineering program at WKU focuses on construction, geotechnical engineering, construction materials, structures, surveying, and hydrology.

The teaching philosophy of this program focuses on project-based learning. This is achieved by placing competent, practicing engineers in the classroom as professors, engaging students in the practice of civil engineering through hands-on class projects, and involving students in faculty consulting and applied research activities. Real engineering projects often serve as class projects. Project sites and professional engineering and construction management firm offices often serve as classrooms.

The major in civil engineering leads to a Bachelor of Science degree. The curriculum requires a minimum of 68 technical specialty hours, completion of pre-major courses, additional 10 -11 semester hours of math and science requirements, and completion of Colonnade general education hours. The WKU Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Civil Engineering Program Educational Objectives
The program achieves its mission by focusing on specific educational objectives. A few years after graduation, WKU CE graduates are expected to have the following characteristics:

Objective 1: Graduates attain positions of Engineer in Responsible Charge on projects in both the public and private sectors and successfully execute projects using technical and managerial skills while demonstrating professional and ethical behavior.
Objective 2: Graduates attain Engineering licensure and other professional certifications as appropriate to their career.
Objective 3: Graduates continue to pursue life-long learning opportunities through advanced degrees and various continuing education endeavors.
Objective 4: Graduates become leaders within their companies, the profession, and other activities.

The CE student outcomes are listed on the program website at www.wku.edu/seas.

Academic Standards for the WKU Civil Engineering Program
Students are admitted as a pre-major in civil engineering. To transition from pre-major to major and to graduate with a degree in civil engineering, students must complete each of the following courses and labs with a grade of "C" or better: ENG 100, COMM 145, MATH 136 and MATH 137, PHYS 255 and PHYS 256, EM 222, and GEOL 111. COMM 145 will be replaced with a Human Communications (OC course). Students must also complete the following courses with a grade of "C" or better: all pre-major courses, and all major courses except one. In addition, each student is required to have a 2-course sequence in four (4) different civil engineering areas. The curriculum already includes a 2-course sequence in structures, geotechnical engineering, and construction. Therefore, each student must select one of the technical electives to cover an additional area such as surveying, materials, environmental engineering, hydrology, or transportation.

Students must take the following 68 technical specialty credit hours required for the major: CE 176 or ME 176 or EE 101, CE 160, CE 161, CE 303, CE 304, CE 305, CE 310, CE 316, CE 332, CE 342, CE 352, CE 370, CE 371, CE 382, CE 400 or ENGR 490, CE 410, CE 411, CE 412, CE 461, CE 498 or ENGR 491, AMS 163, CHEM 120, CHEM 121, EM 222, EM 303. As part of the 68 technical specialty credit hours, students must take 3 hours of structures electives chosen from: CE 384 or CE 482. Students may not receive credit for both CE 482 or for CE 482, and CE 384.

Nine (9) credit hours of technical electives are required from the approved list: CE 300, CE 301, CE 326, CE 360, CE 361, CE 378, CE 379, CE 380, CE 381, CE 383, CE 426, CE 436, CE 440, CE 444, CE 462, CE 474, CE 475, CE 476, CE 486, CE 490, CE 491, EE 350, EM 313, CM 363, CM 400, CM 426, AMS 305, AMS 325, ENGR 400, GEOL 408, GEOL 310, GEOL 415, GISC 316, GISC 317, MATH 350, and ME 220.

Additional math and science requirements (10-11 hours) include GEOL 111/GEOL 113, MATH 237, MATH 331and a science or math elective from the following list of courses CHEM 222/CHEM 223, PHYS 265/PHYS 266, GEOG 280, GEOL 311, GEOL 420, GEOL 445, GEOL 465, MATH 307, MATH 370, STAT 301.

For detailed information on the civil engineering program, please see the "Civil Engineering Handbook" (available at http://wku.edu/seas) and/or contact your advisor."

Major in Computer Information Technology

Program Coordinator: M. Revels

Reference Number: 555P (seeking admission)
555 (officially admitted)
Minimum Hours for Major: 60

Minimum Hours for Degree:120
Degree: Bachelor of Science

Suggested Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/computer_information_tech_555.pdf

Computer Information Technology (CIT) is an integral part of modern life, business and, careers in the CIT field frequently exceed median pay and future job outlook growth. The CIT program at WKU can help prepare students for many rewarding careers, including:

- Computer Network Architect
- Computer Programmer
- Computer Support Specialist
- Database Administrator
- Information Security Analyst
- Network and Computer Systems Administrator
- Software Developer
- Web Developer

The CIT online degree requires 120 credit hours and leads to a Bachelor of Science degree. No minor or second major is required. Enrollment in the CIT program is limited and based on student qualifications. All courses in the major must be completed with a grade of "C" or better. The program requires 36-60 hours of upper-division CIT coursework, depending on transfer credits. All courses should be selected consistent with WKU's degree requirements including:

- 36 hours minimum must be earned at WKU (typically satisfied by CIT course requirements below)
- 42 hours must be in upper-division credit (36 hours for students that transfer with an Associate of Applied Science degree in computer technology or related major, also satisfied by CIT course requirements below)
- 120 hours minimum overall
- Colonnade Program Requirements
- MATH 116 or higher

Degree Requirements
For transfer students (with an Associate of Applied Science degree or equivalent in computer technology or related major), 36 hours of CIT coursework is required. These include:

- Four 300-level core courses: CIT 300, CIT 302, CIT 352, CIT 372 (12 hours)
- Seven courses, to be selected from 400-level CIT courses and / or from AMS 342, AMS 367, AMS 390, AMS 394, AMS 396, AMS 430, AMS 475 (21 hours)
- Capstone course: AMS 490 (3 hours, to be taken in last semester)

For non-transfer students, 60 hours of CIT coursework is required. These include:

- Ten 300-level foundation courses: CIT 300, CIT 302, CIT 310, CIT 312, CIT 330, CIT 332, CIT 350, CIT 352, CIT 370, CIT 372 (30 hours)
- Nine courses, to be selected from 400-level CIT courses and/or from AMS 342, AMS 367, AMS 390, AMS 394, AMS 396, AMS 430, AMS 475 (27 hours)
- Capstone course: AMS 490 (3 hours, to be taken in last semester)

Please visit the program website for more information: www.wku.edu/cit.

Major in Computer Science

Reference Number: 629P (seeking admission)
629 (officially admitted)
Minimum Hours for Major: 44-50

Program Coordinator: M. Atici
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path for Concentration:

Without Concentration: http://wku.edu/degreepaths/18-19/documents/ocse/csci_any_minor_option_629.pdf

Specialty Option: http://wku.edu/degreepaths/18-19/documents/ocse/csci_speciality_option_629.pdf

Systems/Scientific Applications: http://wku.edu/degreepaths/18-19/documents/ocse/csci_scientific_option_629.pdf

Computer Science Program Educational Objectives
The program achieves its mission by focusing on specific educational objectives. Within three to five years after graduation, WKU CS graduates are expected to be:

Objective 1: Engage in continuous learning to adapt to innovation and evolving technologies;
Objective 2: Design and implement solid solutions for rapidly changing computing & information systems;
Objective 3: Be effective team participants;
Objective 4: Effectively communicate ideas in verbal and written form at the appropriate level for the audiences; and
Objective 5: Be ethical and socially responsible computer science professional

The CS student outcomes are listed on the program website at www.wku.edu/seas.

The major in computer science requires a minimum of 44 semester hours. To be admitted to the computer science major, students must complete CS 180, CS 221, and CS 339 with grades of "C" or better. In addition, all CS courses counting toward the CS program major must be completed with a grade of "C" or better. Computer Science electives may include from 0-3 hours of 200-level courses.

Students must adhere to all University Policies as indicated in the WKU catalog section "Academic Information." Additional requirements are as follows:

Systems/Scientific Applications Concentration

1. 50 hours are required including 47 hours of computer science courses and 3 hours of STAT 301.
2. ENG 307 and MATH 136 are required.
3. Completion of these 11 CS core courses (35 credit hours): CS 180, CS 221, CS 325, CS 339, CS 351, CS 360, CS 382, CS 396, CS 421, CS 425, and CS 496.
4. Completion of 12 hours of CS electives from the following courses: CS 372, CS 381, CS 443, CS 445, CS 446, CS 450, and CS 456.
5. Completion of 2 courses from the following list: MATH 137, MATH 305, MATH 307, MATH 331, MATH 405, MATH 406, MATH 470 and MATH 473.
6. Completion of one year of a laboratory science (a two semester sequence of the same science) and one additional science course (all must be designed for Science / Engineering majors).
7. One additional course from the above list of Mathematics courses (this course may not be used to satisfy any other CS major degree requirement) or one additional science course designed for science/engineering majors.

Any Minor Option

1. 44 hours of computer science courses are required.
2. ENG 307, MATH 136, and STAT 301, are required.
3. Completion of these 11 CS core courses (35 credit hours): CS 180, CS 221, CS 325, CS 339, CS 351, CS 360, CS 382, CS 396, CS 421, CS 425, and CS 496.
4. Completion of an additional 9 hours of CS electives at the 200-level or above (excluding CS 257) including 3 hours at the 400-level and another 3 hours at the 300-level or higher. Note: At most 1.5 hours of credit for CS 239 may count towards the major. At most 3 hours of credit for CS 239 and CS 245 (only for languages for which credit is not received through another course) may count towards the major.
5. Completion of any additional minor/major.

Specialty Concentration

1. 50 hours of computer science courses are required.
2. ENG 307, MATH 136, and STAT 301 are required.
3. Completion of these 13 CS core courses (41 credit hours): CS 180, CS 221, CS 325, CS 339, CS 351, CS 360, CS 381, CS 382, CS 396, CS 421, CS 425, CS 443, and CS 496.
4. An additional 18 hours of specialty courses, selected in consultation with a CS advisor, not used to satisfy specific other graduation requirements for the CS major or for the Colonnade Program, including 9 hours of which are at the 300 level or above.
5. Completion of an additional 9 hours of CS electives at the 200-level or above (excluding CS 257) including 3 hours at the 400-level and another 3 hours at the 300-level or higher. Note: At most 1.5 hours of credit for CS 239 may count towards the major. At most 3 hours of credit for CS 239 and 245 (only for languages for which credit is not received through another course) may count towards the major.

Major in Construction Management

Program Coordinator: B. Haddad

Reference Number: 533
Minimum Hours for Major: 69-70

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/construction_management_533.pdf

Construction Management involves planning, coordination, and control of projects from inception to completion. Construction Managers work out of a main or field office to perform a variety of important functions, including Project Planning, Cost Management, Time Management, Quality Management, Safety Management and Contract Administration.

Career Opportunities: Graduates obtain employment in a wide variety of organizations, including construction management firms, general contractors, and specialty contractors serving the commercial, industrial, heavy civil, and residential construction sectors. They may choose to become specialists in estimating, scheduling, safety, quality, or field supervision. Typical job titles include project manager, project engineer, office engineer, field engineer, estimator, quantity surveyor, and superintendent, along with many others.

Program Description: The program in Construction Management is designed to provide students with technical and managerial skills needed to assume leading positions in the construction industry. A minor or second major is not required. Course requirements for the major are shown below. Students should consult with an advisor in planning their four-year degree program.

The following courses are required for the major: AMS 163, AMS 217, AMS 261, AMS 262, AMS 271, AMS 282, AMS 305, AMS 310, AMS 325, AMS 371, AMS 390, AMS 394, AMS 398 or UC 400, AMS 430, AMS 490B, CM 250, CM 363, CM 462, CE 160/CE 161 or AGMC 170/AGMC 171, CE 303, CE 304, and CE 316.

Students must take one course from each of the following:

- Introductory accounting-financial - ACCT 200, MKT 220, MKT 325, MKT 390, FIN 161, FINC 161C, RE 170C, BUS 100C, BUS 102C, BUS 110C, BUS 250C, BUS 252C, ENT 312
- Business Law - MGT 301, MGT 333, or MGT 365.
- Intro to Economics/Principals of Economics – AGEC 360, ECON 150, ECON 202, ECON 203, ECON 375, ECON 390, ECO 150C, ECO 202C, ECO 203C. Students are also required to take MATH 117 or higher.

Major in Electrical Engineering

Program Coordinator: W. Collett

Reference Number: 537P (seeking admission)
537 (officially admitted)
Minimum Hours for Major: 58

Minimum Hours for Degree:124
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/elec_eng_537.pdf

Electrical engineering touches virtually every aspect of life in the twenty-first century. Electrical engineers are experts in dealing with electricity, electromagnetism, and electronics. Electrical engineers are employed in a variety of industries including:

- Circuits and Electronics
- Communication and Signal Processing
- Electrical Power Systems
- Computer Hardware and Embedded Systems
- Robotics, Control Systems and Automation Biomedical Applications
- Automotive and Aerospace Systems
- Manufacturing plants

The mission of our Electrical Engineering Program at WKU is to build a foundation of knowledge in electrical engineering by integrating a variety of project experiences at every level throughout the curriculum. Our program is to be relevant to our region and to produce graduates who can immediately contribute to the profitability of their employer. Our electrical engineering curriculum exposes students to a variety of topics to prepare them for careers as engineers.

The curriculum requires a minimum of 58 technical specialty hours and 33 semester hours of required science and mathematics courses.

The WKU Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Electrical Engineering Program Educational Objectives
The program achieves its mission by focusing on specific educational objectives. A few years after graduation, WKU EE graduates are expected to be:

Objective 1: Pursuing successful and productive careers;
Objective 2: Applying their engineering education to address real-world problems;
Objective 3: Continuing their professional development and engaging in lifelong learning; and
Objective 4: Emerging as leaders in their companies, profession, and communities.

Academic Standards for the Electrical Engineering Program
Students are admitted as a pre-major in Electrical Engineering. In order to transition from the pre-major to major and to graduate with a degree in Electrical Engineering, students must complete the following courses earning a grade of "C" or better in each course.

- EE 210 – Circuits & Networks (3.5 hours)
- ENG 100 − Freshman English (3 hours)
- Human Communication (F-OC)
- MATH 136 − Calculus and Analytical Geometry I (4 hours)
- MATH 137 − Calculus and Analytical Geometry II (4 hours)
- PHYS 255− University Physics I and Lab (5 hours)
- PHYS 265 − University Physics II (4 hours)

For detailed information on the electrical engineering program, please see http://wku.edu/seas and/or contact your advisor."

Courses required for major
Students must take the following courses: EE 101, EE 180, EE 200, EE 210, EE 211, EE 300, EE 345, EE 380, EE 400 or ENGR 490, EE 401 or ENGR 491, EE 420, EE 431, EE 460, and EE 473 or PHYS 440.

In addition, students must take twelve hours of technical electives selected from: EE 405, EE 410 and EE 411, EE 432, EE 443, EE 445, EE 450/EE 451, EE 461, EE 462, EE 470/EE 475, EE 477, EE 479, EE 480, EE 490, or ENGR 360. Six hours of engineering/science electives must be taken from the below list:

Engineering / Science Electives (must take at least 6 hours)

- EM 222 or PHYS 350
- ME 220 or PHYS 330
- ME 240 − Materials and Methods of Manufacturing
- ME 330 or CE 342
- PHYS 450 − Classical Mechanics II
- PHYS 318 − Data Acquisition Using LabVIEW
- ENGR 400 − Principles of Systems Engineering
- Math 305 – Introduction to Mathematical Modeling
- PHYS 316 – Computational Physics

In addition, students must complete MATH 237, MATH 331, STAT 301, CS 239, and ECON 202 or ECON 203. Students must select a 3-hour math elective chosen from MATH 307, MATH 350, or MATH 370 and a 3-hour science elective chosen from CHEM 116, CHEM 120, BIOL 120, BIOL 122, BIOL 131, ENV 280, GEOL 111, or METR 121.

Major in Manufacturing Engineering Technology

Program Coordinator: M. Doggett

Reference Number: 5006
Minimum Hours for Major: 58

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path:

http://wku.edu/degreepaths/18-19/documents/ocse/manufacturing_engineering_technology_5006.pdf

This program prepares individuals to apply basic engineering principles and advanced manufacturing technical skills in support of industrial operations. The major includes instruction in optimization theory, human factors, organizational behavior, industrial processes, industrial planning procedures, systems integration, quality, and project management. Graduates achieve positions of leadership in business and industry while practicing innovation in the global marketplace.

Career Opportunities: Graduates obtain employment in a wide variety of positions. Some job titles of graduates include: systems integrator, industrial engineer, production manager, production specialist, new product development engineer, manufacturing engineer, quality manager, quality engineer, production engineer, general manager, plant manager, operations manager, industrial trainer, project manager, continuous improvement manager, and technology educator.

Program Description: A minor or second major is not required. Course requirements for the major are shown below. Students should consult with an advisor in planning their course schedules and career goals.

The major in manufacturing engineering technology requires the following 19 hours of technical core courses:

- Finance Selective: ACCT 200 or MKT 220 or FIN 161
- AMS 120 or (AMS 120-M1, AMS 120-M2, AMS 120-M3)
- AMS 163/AMS 205 or (AMS 205-M1, AMS 205-M2, AMS 205-M3)
- AMS 271
- UC 400 or AMS 398
- AMS 490E or (AMS 490-M1, AMS 490-M2, AMS 490-M3)
- AMS 328 or (AMS 328-M1, AMS 328-M2, AMS 328-M3)

The following courses are taken as part of the management core (24 hours):

- AMS 310 or (AMS 310-M1, AMS 310-M2, AMS 310-M3)
- AMS 356 or (AMS 356-M1, AMS 356-M2, AMS 356-M3)
- AMS 390 or (AMS 390-M1, AMS 390-M2, AMS 390-M3)
- AMS 430 or (AMS 430-M1, AMS 430-M2, AMS 430-M3)
- Communications Selective: BUS 214C or COMM 345 or COMM 346 or COMM 349 or COMM 362 or MGT 361
- Business Law Selective: MGT 200 or MGT 301 or MGT 333
- AMS 371 or (AMS 371-M1, AMS 371-M2, AMS 371-M3)
- AMS 394 or (AMS 394-M1, AMS 394-M2, AMS 394-M3)

The following courses are taken as part of the advanced manufacturing core (15 hours):

- AMS 217 or (AMS 217-M1, AMS 217-M2, AMS 217-M3)
- AMS 227 or (AMS 227-M1, AMS 227-M2, AMS 227-M3)
- AMS 342 or (AMS 342-M1, AMS 342-M2, AMS 342-M3)
- AMS 343 or (AMS 343-M1, AMS 343-M2, AMS 343-M3)
- AMS 370 or (AMS 370-M1, AMS 370-M2, AMS 370-M3)

Students must also take MATH 117 or higher as an additional required course.

Project Lead the Way – The School of Engineering and Applied Sciences (SEAS) agrees to grant college level credit for secondary school students from certified Project Lead the Way (PLTW) schools who satisfy the following requirements:

First, students must complete the following two (2) PLTW courses with a grade of B or above and a 6 or above on the End of Course college credit exam: 1. Introduction to Engineering Design; and 2. Principles of Engineering

Second, students must complete two (2) of the following PLTW courses with a grade of B or above and a 6 or above on the End of Course college credit exam: Aerospace Engineering; Biological Engineering; Civil Engineering and Architecture; Computer Integrated Manufacturing; Computer Science and Software Engineering; Digital Electronics; Capstone Course – Engineering Design and Development

Third, students must meet the requirements for admission to Western Kentucky University and enroll in the Bachelor of Science in Manufacturing Engineering Technology program within SEAS.

Finally, students requesting the credit must provide a written statement from the instructor of the PLTW program and the principal or guidance counselor, stating the student has successfully completed the program with the above specifications. In addition to the written statement an official transcript should be submitted for verification.

If the previous four conditions are met, the following three (3) courses will be articulated to the student's Western Kentucky University record: 1) AMS 120 – Basic Electricity (3 credit hours), 2) AMS 205 – CADD for Manufacturing (3 credit hours), 3) AMS EL-L – Lower-Level Undergraduate Technical Elective (6 credit hours)

Major in Mechanical Engineering

Program Coordinator: C. Byrne

Reference Number: 543P (seeking admission)
543 (officially admitted)
Minimum Hours for Major: 60.5

Minimum Hours for Degree:122.5
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/mechanical_engineering_543.pdf

Mechanical engineers are involved in designing and building almost everything that is needed in our modern world, from nearly invisible electro-mechanical devices to enormous power generating and distribution systems producing millions of horsepower. Mechanical engineers use scientific principles from the physical world to create a tremendous variety of mechanical and thermal systems. Practicing mechanical engineers use these principles to design, analyze, manufacture and maintain systems that include:

- automobiles and aircraft
- heating and cooling systems
- electric power plants
- specialized materials
- manufacturing plants
- industrial equipment and machinery

Mechanical engineers need a solid understanding of engineering science, which includes mechanics, engineering materials, thermodynamics and fluid mechanics. The program at WKU focuses on these sciences as well as design and professional skills necessary for a successful career in mechanical engineering. Our graduates have a strong competitive advantage with their unique background of engineering fundamentals combined with practical knowledge and experience. The mechanical engineering program provides a project-based, learner-driven environment relevant to the needs of modern society. In support of this learning environment, the professional engineering activities of the faculty create opportunities for the students to practice the art and science of contemporary Mechanical Engineering.

The major in Mechanical Engineering leads to a Bachelor of Science degree. The curriculum requires a minimum of 60.5 technical specialty hours, completion of required Colonnade coursework, and 32-33 semester hours of required mathematics and science.

The WKU Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Mechanical Engineering Program Educational Objectives
The mission is achieved by focusing on specific program educational objectives. Within a few years of completing the Mechanical Engineering Program, a graduate will:

Objective 1: Either be contributing to their regions' economic development through employment in mechanical engineering or related professions, or pursuing advanced credentials.
Objective 2: Occupy leadership roles in their profession, or in their communities, as their career develops
Objective 3: Demonstrate professionalism on diverse teams across a range of varied responsibilities
Objective 4: Be proactive in their professional development and engage in the continuing education needed to maintain and enhance their career.

The ME student outcomes are listed on the program website at www.wku.edu/seas.

Academic Standards for the Mechanical Engineering Program
Students are admitted as a Pre-Major in Mechanical Engineering. In order to transition from Pre-Major to Major and to graduate with a degree in Mechanical Engineering, student must satisfy the requirements below. All courses below must have a grade of "C" or better.

- College Composition (F-W1) (3 hours)
- Human Communications (F-OC) (3 hours)
- MATH 136: Calculus I or equivalent credit (4 hours)
- MATH 137: Calculus II or equivalent credit (4 hours)
- PHYS 255/PHYS 256: University Physics I/Lab (5 hours)
- CHEM 116/CHEM 106 or CHEM 120/CHEM 121 (4 or 5 hours)
- EM 222: Statics (3 hours)

Total Hours: 26 or 27 hours

These pre-major eligibility requirements MUST be completed before enrolling in ME 200: Sophomore Design. Check iCAP for progress towards meeting these requirements.

In addition to satisfying the requirements to transition from pre-major to major in mechanical engineering, the student must earn a grade of "C" or better in the following courses required of the major: EM 303, ME. 176, ME 180, ME 200, ME 220, and ME 240.

Each mechanical engineering student must also take at least one mathematics/science elective, for a total of a minimum of 32 hours of mathematics and science beginning at MATH 136. This elective must be chosen from the following list: ASTR 214, BIOL 120/BIOL 121, BIOL 122/BIOL 123, BIOL 207, CHEM 222/CHEM 223, PHYS 316, PHYS 318, MATH 305, MATH 307, MATH 310, MATH 370, STAT 301.

The following 60.5 hours are required for the major: ME 176, ME 180, ME 240, ME 241, EE 210, ME 200, EM 222, EM 313, EM 303, ME 347, ME 220, ME 344, ME 300, ME 310, ME 330, ME 325, ME 400 or ENGR 490, ME 332, ME 333, ME 412 or ENGR 491, and 12 hours of ME technical electives. Additional required courses for the major include: CHEM 120/CHEM 121 or CHEM 116/CHEM 106, PHYS 255, PHYS 256, PHYS 265, PHYS 266, MATH 136, MATH 137, MATH 237, MATH 331, and three hours of mathematics/science electives. Students must complete a minimum of 32 hours of mathematics and science courses beginning with MATH 136. Student must also satisfy the WKU Colonnade requirements.

For detailed information on the mechanical engineering program, please see the "Mechanical Engineering Program Guide" (available at http://www.wku.edu/seas act your advisor.

Major in Technology Management

Program Coordinator: B. Janes

Reference Number: 575
Minimum Hours for Major: 63

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/tech_mgmt_575.pdf

Technology is defined as any tool or operating system designed to improve the efficiency, quality, and competitiveness of an organization. Technology Management at Western Kentucky University is a 2+2 program designed specifically for students who currently hold a certificate or associates degree from a technical school, two-year college or four-year institution. The Technology Management program is a capstone program that provides a two-year management emphasis for those working toward a supervisory position in industry. Graduates are empowered to obtain a position of leadership in business, industry or workforce development in support of innovation and global competitiveness. Students who transfer to WKU with an applied associate degree (e.g., Associate of Applied Science) receive a 12-hour waiver from the overall 42 hour upper-level course requirement.

Career Opportunities: Graduates obtain employment in a wide variety of positions, some job titles of graduates include: systems integrator, industrial engineer, production manager/specialist, manufacturing engineer, maintenance specialist, quality manager, quality engineer, production engineer, general manager, plant manager, industrial trainer, project manager, systems analyst, shift supervisor, and technology educator.

Program Description: Western Kentucky University provides upper-division hours both in the major and in general education toward the completion of the degree. Students take 39 hours of major that includes 12 hours of upper-division electives approved by the advisor. Majors then take general education or elective courses to fulfill university requirements regarding the following:

- 36 hours minimum in WKU courses
- 42 hours minimum upper-division courses (unless receiving a waiver)
- 120 hours minimum for graduation
- Colonnade Program Requirements
- MATH 116 or equivalent

Degree Requirements for Technology Management Major (63 hours)

- 24 semester hours of advisor approved courses transferred from a technical school, college or university 100/200 level and
- 39 semester hours –for a total of 63 hours in the major. Major courses include: AMS 271, AMS 310, AMS 342, AMS 356, AMS 371, AMS 390, AMS 394, AMS 430, AMS 490F, and twelve hours of advisor-approved technical upper-division electives.

Students should consult with an advisor in planning their four-year degree program in Technology Management.

Minor in Computer Science

Program Coordinator: M. Atici

Reference Number: 341
Minimum Hours for Minor: 20

The following 20 credit-hour program leads to a minor in computer science. All CS courses counting toward the CS program minor must be completed with a grade of "C" or better:

1. Completion of the following two required courses (8 hours): CS 180 and CS 221.
2. Completion of one of the following courses: CS 339 or CS 351.
3. Completion of 9 additional hours of CS courses at the 300-level or higher

Minor in Construction Management

Program Coordinator: B. Haddad

Reference Number: 343
Minimum Hours for Minor: 19-20

The minor in construction management a minimum of 19-20 hours, only 9 of which can be duplicated in the student's major program of study. The student who elects a minor in construction management must complete the following courses: AMS 261, AMS 262, CE 303, CM 250, CM 363, CM 462. Remaining hours shall be selected from the technical electives. Choose one 3 or 4 hours course from: AMS 163, AMS 251, AMS 305, AMS 325, AMS 390, AMS 394, AMS 430, MGT 301, MGT 314, MGT 333, CM 400, CE 316, CE 370/CE 371, or ENGR 400.

Minor in Electrical Engineering

Program Coordinator: W. Collett

Reference Number: 354
Minimum Hours for Minor: 21

The minor in electrical engineering requires a minimum of 21 semester hours in electrical engineering. The required courses include EE 210 and EE 211. Students, with the approval of an EE advisor, select additional electrical engineering courses to complete the minor; at least 11 hours must be at the 300-level or above. Students majoring in electrical engineering cannot earn a minor in electrical engineering. EE 350 does not count towards the EE minor.

Minor in Floodplain Management

Program Coordinator: W. Campbell

Reference Number: 361
Minimum Hours for Minor: 22

This minor has been coordinated with the Geography and Geology Department and with the Kentucky Association of Mitigation Managers. The Floodplain Management minor requires completion of at least 21 semester hours including 13 core hours taken by all students and an additional 8 hours of electives. At least six hours of the minor must be taken from classes not counting toward completion of the major. The minor provides students with basic knowledge and skills needed to implement and administer flood mitigation and recovery programs. Students develop familiarity with federal floodplain management regulations, the National Flood Insurance Program, hydrology, surveying, and tools such as Geographic Information Systems that are critical to administering an aggressive floodplain management program. Completion of the minor requires familiarity with all aspects of floodplain management and with the impacts of floods on individuals, on property, and on regional or national economics. Students successfully completing the program are encouraged to take the Certified Floodplain Manager (CFM) exam. The CFM is a nationally recognized certification and is considered a desirable qualification by many employers. Required courses for the minor are CE 160/CE 161, CE 300, GISC 316, and CE 461 or GEOG 310/GEOL 310. A minimum of 8 semester hours of electives must be selected from GEOL 111, GEOL 113, GEOL 420/GEOG 420, GEOG 391, GEOG 427, GEOL 445, GEOG, 455, GEOG 474, GISC 414, GISC 417, GISC 419, GISC 477, METR 121, METR 422, METR 324, METR 426, METR 431, METR 433, METR 437, METR 438, CE 301, CE 380, CE 381, CE 461, CE 480, CE 481.

For students majoring in civil engineering, a suggested sequence of courses for completion of this minor is: CE 160 and CE 161, CE 380 and CE 381, METR 121, CE 300, and CE 461.

For students majoring in geography or geology, a suggested sequence of courses for completion of this minor is: GEOG 121, CE 160 and CE 161, CE 300, GEOG 310, and GISC 414.

Minor in Industrial Sciences

Program Coordinator: B. Reaka

Reference Number: 395
Minimum Hours for Minor: 18

The minor in industrial sciences requires a minimum of 18 semester hours (half of which must be upper division 300- or 400-level). The purpose of the minor in industrial sciences is to provide students with technical preparation that will support their career goals in their current major. Each program of study will include a balance of basic and advanced courses. Programs must be planned in advance with their academic advisor.

Minor in Land Surveying

Program Coordinator: J. Wilson

Reference Number: 405
Minimum Hours for Minor: 26

The land surveying minor provides the student with the basic knowledge and skills needed to accomplish land surveying tasks for entry-level employment. These tasks include boundary surveys, topographic mapping, leveling, stakeouts, traversing, field note taking, distance and angle measurements, plus proper techniques and use of surveying equipment (total stations, EDMs, and levels).

The following courses are currently required for the land surveying minor (26 hours): AMS 163, CE 160 and CE 161, CE 380 and CE 381, CE 378 and CE 379, GISC 316, and GISC 317, and GISC 414.

Minor in Systems Engineering

Program Coordinator: R. Choate

Reference Number: 476
Minimum Hours for Minor: 21-21.5

Systems engineering is a robust approach to the design, creation, and operation of systems. The minor requires 21 hours for CE and ME majors and 21.5 hours for EE majors. Students must complete 12 or 12.5 hours of required courses and choose a minimum of 9 hours from elective courses. The following courses are required: EE 210 or EM 221 or EM 222, STAT 301 or CE 305, ENGR 400, and CE 498 or EE 401 or ME 412. Nine hours of electives should be taken from: CE 303/CE 304, EE 460, EM 313, any CE 400-level technical elective, any EE 400-level technical elective, or ME 49x technical electives. The technical elective must incorporate or expand on systems engineering principles as outlined in ENGR 400. Technical elective courses currently meeting this intent include but are not limited to: CE 300, CE 326, CE 360, CE 361, CE 378, CE 379, CE 380, CE 381, CE 383, CE 384, CE 426, CE 436, CE 440, CE 476, CE 486, EE 410/EE 411, EE 443, EE 431, EE 432, EE 461, EE 443, and ME 49x courses taken in consultation with your advisor.

Automation Certificate

Program Coordinator: B. Reaka

Reference Number: 1726
Minimum Hours for Certificate: 12

This certificate program provides an understanding of the skills of direction, definition, design, development / application, deployment, documentation and support systems, software and equipment used in control systems, manufacturing information systems, systems integration, and operational consulting as they apply automation professionals. This 12-hour program consists of three required courses: AMS 328, AMS 343, and AMS 370. In addition, one elective should be chosen from AMS 301, AMS 342, AMS 352, AMS 356, AMS 394, or AMS 396. Each course, except AMS 328 and AMS 301, is also offered online as a sequence of three 1-hour modules.

CNSS 4011 Certificate

Program Coordinator: R. Yang

Reference Number: 1719
Minimum Hours for Certificate: 6

The CNSS 4011 certificate requires a minimum of six semester hours. It is designed for students wishing to gain knowledge in the information assurance area. The student pursuing the certificate must complete the following course sequence with a grade of “C” or better in each course: CS 157 and CS 257.

Food Processing and Technology Certificate

Program Coordinator: J. Khouryieh

Reference Number: 1718
Minimum Hours for Certificate: 12

The certificate in Food Processing and Technology will provide professionals working in the food industry with the necessary knowledge in food processing, quality assurance, and food safety to succeed, and advance their careers in the food industry. The certificate requires 12 hours. The required courses are AMS 301, AMS 303, AMS 352, and AMS 395. Students may be required to take additional hours to complete course prerequisites.

Land Surveying Certificate

Program Coordinator: J. Wilson

Reference Number: 1700
Minimum Hours for Certificate: 15

Undergraduate students majoring in civil engineering or post-graduate students with baccalaureate degrees in civil engineering, mining, or agricultural engineering accredited by the Accreditation Board of Engineering and Technology (ABET) may obtain a Certificate in Land Surveying (reference number 1700) in order to pursue licensure as a professional surveyor in the state of Kentucky by completing the following courses (15 hours): AMS 163, CE 160 and CE 161, CE 380 and CE 381, and CE 378 and CE 379.

Post-graduate students with baccalaureate degrees in majors other than civil engineering, mining or agricultural engineering may obtain a Certificate in Land Surveying in order to pursue licensure as a professional surveyor in the state of Kentucky by completing the same courses as listed for the minor in land surveying (26 hours). See minor in land surveying.

Manufacturing and Logistics Certificate

Program Coordinator: B. Reaka

Reference Number: 1727
Minimum Hours for Certificate: 12

This certificate program provides an understanding of the relationships between the process and product requirements of a manufacturing activity in order to analyze design and develop the concepts needed to assemble integrated systems. The focus is on distribution, warehousing, and material handling. This 12-hour program consists of three required courses: AMS 356, AMS 394, and AMS 396. In addition, students must take a one elective chosen from: AMS 163/AMS 205, AMS 301, AMS 310, AMS 342, AMS 352, AMS 371, AMS 390, or AMS 430. Each course, except AMS 163 and AMS 301, is also offered online as a sequence of 1-hour modules.

Manufacturing Processing and Technology Certificate

Program Coordinator: B. Reaka

Reference Number: 1728
Minimum Hours for Certificate: 12

This certificate program prepares individuals to apply manufacturing processing and technology skills in support of industrial operations. It focuses on the requirements and selection criteria for the integration of technology into simple and complex industrial activities. The 12-hour program consists of three required courses: AMS 342, AMS 371, and AMS 396. In addition, students must take one elective from: AMS 217, AMS 227, AMS 271, AMS 301, AMS 343, AMS 352, AMS 356, AMS 370, or AGMC 371 and AGMC 372. Each course, except AMS 271, AMS 301 and AGMC 371 and AGMC 372, is also offered online as a sequence of three 1- hour modules.

Six Sigma and Quality Certificate

Program Coordinator: M. Doggett

Reference Number: 1729
Minimum Hours for Certificate: 12

Six sigma lean principles for quality assurance have been applied successfully in business, engineering, health services, sciences, education and media. Industry offers substantial compensation to six sigma certificate holders. This 12-hour program consists of three required courses: AMS 271, AMS 371, and AMS 394. In addition, one elective must be chosen from: AMS 227, AMS 310, AMS 342, AMS 352, AMS 356, AMS 390, AMS 396, and AMS 430. Each course, except AMS 271, is also offered online as a sequence of 1-hour modules.

Graduate Programs − The School of Engineering and Applied Science offer a Master of Science in Engineering Technology Management and a graduate certificate in Lean Sigma. For additional information, see www.wku.edu/graduate or contact SEAS.

Department of Geography and Geology

Dr. Fredrick D. Siewers, Chair

Environmental Sciences and Technology Building, Office 304
Phone: 270-745-4555
Website: www.wku.edu/geoweb

Professors: K. Algeo, S. Foster, M. Gripshover, C. Groves, D. Keeling, M. May, J. Yan
Associate Professors: J. Durkee, X. Fan, N. Gani, R. Gani, G. Goodrich, L. North, J. Polk, F. Siewers, A. Wulff
Assistant Professors: J. Brown,
Instructor I: P. Kambesis, J. Oglesby
Instructor II: W. Blackburn, K. Cary, M. Crowder, S. Dobler, A. Nemon

Programs offered by the Department of Geography and Geology are designed to meet the career goals of students in a wide variety of geoscience areas. Over the past decade, most of our program graduates have found employment in their preferred professions, and many have gone on to advanced graduate programs.

Geography courses provide a scientific foundation for the investigation and understanding of the physical and biological environments, the nature of social, political and economic activity, and the interaction between humans and the environment.

Collectively, these courses offer basic professional training for geographers, environmental scientists, and spatial analysts, as well as providing geographic training for prospective elementary, middle, and high school teachers. They are also an essential component of international programs offered by the university in Latin American, Asian, African, and Canadian studies, and in International business. Geography is considered an essential life skill.

Professional degrees in Geography and Environmental Studies, Meteorology, and Geographic Information Science (GIS) prepare students for service as water and environmental resource managers, city and regional planners, industrial and commercial consultants, meteorologists and climatologists, cartographers, G.I.S. analysts, educators, and government employees in a wide range of national, state, and local agencies. Environmental Planning, Resource Management, and Sustainable Development are interdisciplinary specialties of the Department and many graduates work for the National Park Service, National Forest Service, and other management agencies. Majors in Meteorology and GIS prepare students for professional careers in the atmospheric sciences and in positions that demand sophisticated spatial analytical techniques.

Geology courses provide the basic professional foundation for the scientific investigation of the Earth as well as geological education for the prospective teacher. Geology majors may enter positions in industry and government agencies. Many geologists work in interdisciplinary fields such as hydrology, energy, environmental and engineering geology, geophysics, and geochemistry. Geologists are needed in many areas for basic Earth research, for exploration and development of natural resources, and to address various environmental problems. Students are prepared for a variety of interesting and important career positions in federal and state agencies, engineering and environmental firms, and other areas of private industry, including oil, gas, and coal companies. In addition to the professional B.S. degree in Geology, majors may also select A.B. degree options in earth and space science or general geoscience. The geology program also prepares students for eventual certification as a Professional Geologist.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter, "Academic Information." Specific attention should be given to the subsections in the chapters entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

A five-year bachelors/masters in geography, geology, meteorology, or GIS and geoscience (JUMP program) is available so that motivated students can focus their research interests and gain a Master's degree in an expedited time frame. Five-year bachelors/masters programs can be tailored to meet other research interests for motivated students.

Major in Geographic Information Science

Reference Number: 576
Minimum Hours for Major: 53
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/geographic_info_science_576.pdf

The major in Geographic Information Science focuses on the concepts and principles of GISystems, along with its four components: (1) input, corrections, and collection of geospatial data; (2) storage and retrieval of geospatial data; (3) manipulation and analysis of geospatial data; and (4) maps and other forms of presentation of geospatial data. The major in geographic information science requires a minimum of 53 semester hours of GIS courses. The following 10 hours are foundation requirements: CS 170, GEOG 103 or GEOL 103 or GEOL 111 or METR 121, GEOG 110, and GEOG 499. The following 15 hours are technique requirements: GEOG 300, GEOG 391, and GISC 316, GISC 317. The following 28 hours are professional requirements: GISC 414, GISC 417, GISC 418, GISC 419, GISC 443, GISC 477 or GISC 423, GEOG 492 or GEOG 480 or GEOG 350, and GEOG 475 or GEOG 495. Required support courses are CE 160/CE 161, CS 180 or CS 270 or AMS 163, MATH 118 (or MATH 116 + MATH 117) and MATH 183. GIS courses require a course fee.

Major in Meteorology

Reference Number: 578
Minimum Hours for Major: 48
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/meteorology_578.pdf

The major in Meteorology leads to a Bachelor of Science in Meteorology and requires a minimum of 48 semester hours of meteorology, geography, and computer science. A minor program is not required. Other required courses in physics and mathematics total an additional 25 semester hours.

Students majoring in meteorology will learn the key concepts and skills necessary to qualify as a meteorologist for the National Weather Service, and to meet the standards of the American Meteorological Society.

The following 36 hours are required: METR 121, METR 122, CS 170, GEOG 300, GISC 316, METR 324, GEOG 391, METR 431, METR 432, METR 433, METR 437, and GEOG 499. In addition, students should select 12 hours from any 200-level or above METR course. Examples include METR 325, METR 335, METR 422, METR 438, METR 439, and METR 440 to meet the 48 unduplicated hours required. The following are additional courses required outside of the major: PHYS 255/PHYS 256, PHYS 265/PHYS 266, MATH 136, MATH 137, MATH 237, and MATH 331.

Major in Geography and Environmental Studies

Reference Number: 675
Minimum Hours for Major: 52
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Geography: http://wku.edu/degreepaths/18-19/documents/ocse/geography_environmental_studies_cultural_geo_675.pdf
Tourism and Development:
http://wku.edu/degreepaths/18-19/documents/ocse/geography_environmental_studies_tourism_development_675.pdf
Climate Systems:
http://wku.edu/degreepaths/18-19/documents/ocse/geography_environmental_studies_climate_systems_675.pdf
Karst and Water Resources:
http://wku.edu/degreepaths/18-19/documents/osce/geography_environmental_studies_karst_geoscience_water_res_675.pdf.
Environment and Sustainability:
http://wku.edu/degreepaths/18-19/documents/ocse/geography_environmental_studies_environment_climate_675.pdf

The Bachelor of Science major in Geography and Environmental Studies requires a minimum of 52 semester hours. Incoming freshmen are encouraged to take GEOG 175 (University Experience) as preparation for the major.

Students pursuing the major in Geography and Environmental Studies must take the following 26 hours of core coursework: GEOG 103*, GEOG 110*, GEOG 300, GISC 316, GISC 317, GEOG 391, GEOG 495 or GEOG 452 or GEOG 475, and GEOG 499. In addition, students must select one of the following concentrations:

Climate Systems Concentration:
- Completion of the common core (26 hours)
- METR 121*, METR 322*, and GEOG 455 (10 hours)
- Elective courses selected from any GEOG, GISC, or METR at the 200 level or above, with advisor approval. Examples include METR 121*, GEOG 226*, METR 322*, GEOG 328, GEOG 344, GISC 414, GEOG 459, GEOG 471, GEOG 474, GEOG 487, etc., to meet the 52 unduplicated hours required. At least 26 hours in the program must be at the upper division level.
- Additional requirements not included in the 52 hours are MATH 115* OR MATH 116* and MATH 183*.

Environment and Sustainability Concentration:
- Completion of the common core (26 hours)
- GEOG 210, GEOG 280*, and GEOG 380 (10 hours)
- Elective courses selected from any GEOG, GISC, or METR at the 200 level or above, with advisor approval. Examples include METR 121*, GEOG 226*, METR 322*, GEOG 328, GEOG 344,GISC 414, GEOG 459, GEOG 471, GEOG 474, GEOG 487, etc., to meet the 52 unduplicated hours required. At least 26 hours in the program must be at the upper division level.
- Additional requirements not included in the 52 hours are MATH 115* OR MATH 116* and MATH 183*.

Geography Concentration:
- Completion of the common core (26 hours)
- GEOG 330* and GEOG 430 (6 hours)
- Elective courses selected from any GEOG, GISC, or METR at the 200 level or above, with advisor approval. Examples include METR 121*, GEOG 226*, METR 322*, GEOG 328, GEOG 344,GEOG 414, GEOG 459, GEOG 471, GEOG 474, GEOG 487, etc., to meet the 52 unduplicated hours required. At least 26 hours in the program must be at the upper division level.
- Additional requirements not included in the 52 hours are MATH 115* OR MATH 116* and MATH 183*.

Karst and Water Resources Concentration:

- Completion of the common core (26 hours)
- GEOG 280*, GEOG 310 or GEOL 310, GEOG 461 and GEOG 475 (13 hours)
- Elective courses selected from any GEOG, GISC, GEOL, or METR at the 200 level or above, with advisor approval. Examples include GEOG 226*, METR 322*, GEOG 328, GEOG 344, GISC 414, GEOG 459, GEOG 471, GEOG 474, GEOG 487, etc., to meet the 52 unduplicated hours required. At least 26 hours in the program must be at the upper division level.
- Additional requirements not included in the 52 hours are MATH 136, MATH 183*, PHYS 201 or BIOL 122*, and CHEM 120*.

Tourism and Development Concentration

- Completion of the common core (26 hours)
- GEOG 330* and GEOG 481 (6 hours)
- Elective courses selected from any GEOG, GISC, or METR at the 200 level or above, with advisor approval. Examples include GEOG 200*, GEOG 210, GEOG 226*, GEOG 280*, GEOG 344, GEOG 350, GEOG 352, GEOG 385*, GEOG 471, GEOG 474, GEOG 487, etc., to meet the 52 unduplicated hours required. At least 26 hours in the program must be at the upper division level.
- Additional requirements not included in the 52 hours are MATH 115* OR MATH 116* and MATH 183*.

* Denotes a Colonnade course

Four-Year Degree Program − By taking the courses required of all majors during the freshman, sophomore, and junior years and the courses required for the specific concentrations during the sophomore, junior, and senior years, a student may graduate in four years.

Major in Geology

Reference Number: 577 **Minimum Hours for Degree:**120
Minimum Hours for Major: 52 **Degree:** Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/geology_577.pdf

The professional major in geology is for students seeking careers as a professional geologist and requires a minimum of 52 semester hours and leads to a Bachelor of Science degree. This major provides students with a solid background in all traditional areas of geology for entry-level employment or graduate school. Incoming freshmen are encouraged to take GEOG 175 (University Experience) as preparation for the major.

Professional Extended Major (reference number 577)

- Program Requirements (43-46 hours): GEOL 103/GEOG 103 or GEOL 111, GEOL 112, GEOL 113, GEOL 114, GEOL 270 or GEOL 432, GEOL 408, GISC 316, GISC 317, GEOL 330, GEOL 350, GEOL 360, and GEOL 499.
- In addition students should take one of the following options: (1) GEOL 380 and GEOG 452; (2) six hours of GEOG 452; or (3) GISC 417 and GISC 419.
- Program Electives - -8-9 hours selected from any GEOL 200-level course or above. Examples include GEOL 270, GEOL 310, GEOL 311, GEOL 315, GEOL 325, GEOL 330, GEOL 350, GEOL 399, GEOL 405, GEOL 415, GEOL 420, GEOL 430, GEOL 432, GEOL 440, GEOL 465, GEOL 470, GEOL 475, and from GEOG 310, GEOG 391, GISC 417, GISC 419, and BIOL 122/BIOL 123.

Additional requirements include the following hours: MATH 136, CHEM 120/121, PHYS 180/181 or PHYS 201, and GEOG 300**.

To graduate with Geology Honors, students should take an additional 12 hours of GEOL courses beyond the minimum required for the major and maintain a GPA of 3.25 or higher.

**Note: Satisfies Colonnade Foundations *Writing in the Disciplines* requirement effective Fall 2014.

Major in Earth Science

Reference Number: 678 **Minimum Hours for Degree:**120
Minimum Hours for Major: 33 **Degree:** Bachelor of Arts

Sample Degree Path:
http://wku.edu/degreepaths/18-19/documents/ocse/geography_environmental_studies_earth_science_678.pdf

The major in Earth Science degree is for students who either seek the content knowledge needed to qualify for teacher certification in Kentucky in Earth and Space Science or who do not intend to practice professional geology. This major leads to a Bachelor of Arts degree, and it requires a minor program.

Program Requirements (27 hours): GEOL 103/GEOG 103 or GEOL 111, GEOL 112, GEOL 113, GEOL 114, GEOL 310/GEOG 310, GEOL 311, GEOL 325, GEOL 360, GEOL 408, and GEOL 499.

Program Electives (6 hours) selected from any GEOL 200-level course or above: GEOL 270, GEOL 315, GEOL 330, GEOL 380, GEOL 399, GEOL 405, GEOL 415, GEOL 420, GEOL 440, GEOL 465, GEOL 470, GEOL 475, GEOL 485; and from GEOG 226, GEOG 280, GEOG 391, GEOG 420, GEOG 452, METR 121, and GISC 316.

Additional requirements include: GISC 316, MATH 117, CHEM 105, CHEM 106, BIOL 122/BIOL 123 or PHYS 201 or PHYS 180/PHYS 181, GEOG 300** and a minor field.

**Note: Satisfies Colonnade Foundations *Writing in the Disciplines* requirement effective Fall 2014

Minor in Geography

Reference Number: 374
Minimum Hours for Minor: 18

The minor in geography requires a minimum of 18 semester hours. Required courses are GEOG/GEOL 103,110 and 12 hours of upper-division electives chosen in consultation with your advisor.

Department advisors should be contacted to develop a course of study compatible with the department's philosophy and the student's needs.

Minor in Geology

Reference Number: 377
Minimum Hours for Minor: 21

The minor in geology requires a minimum of 21 semester hours. Required courses are GEOL 111, GEOL 112, GEOL 113, and GEOL 114. Two additional courses must be selected from GEOL 408, GEOL 330, GEOL 350, GEOL 380, GEOL 405, GEOL 360. Additional geology courses, to total a minimum of 5 hours, are to be chosen in consultation with a geology advisor.

Minor in Earth Science

Reference Number: 353
Minimum Hours for Minor: 23

The minor in earth science is designed for geology or physical geography majors, earth science teachers, and for anyone interested in understanding basic earth systems. The minor requires a minimum of 23 semester hours, with at least 50% of the hours earned at the 300-400 level. Required courses are GEOL 111, GEOL 113, GEOL 112, GEOL 114, and METR 121. Student should take 12 hours of electives selected from: ASTR 104, GEOL 408, GEOL 311, GEOL 325, GEOL 405, GEOL 420, GEOL 360, or GEOG 328.

Minor in Water Resources

Reference Number: 491
Minimum Hours for Minor: 21

This 21-hour minor program provides a foundation in the physical and social science aspects of water resource management and policy. The minor is appropriate for students interested in careers in applied hydrology and/or water resources management and policy. Required courses (9-10 hours) include GEOG 103/GEOL 103 or GEOL 111/GEOL 113, GEOL 310/GEOG 310, and GEOG 427. Restricted elective courses (12 hours) include GEOL 415, GEOL 440, GEOL 445, GEOG 428, GEOG 452, GEOG 459, GEOG 461, GEOG 474, METR 121, METR 422.

Minor in Geographic Information Systems

Reference Number: 366
Minimum Hours for Minor: 26

This minor program provides a foundation in Geographic Information Systems (GIS). The minor is appropriate for students interested in careers utilizing GIS as a tool in areas such as geography, geology, biology, political science, business, journalism and broadcasting, engineering, and public health, or for students pursuing GIS as a profession in a related discipline such as Computer Science or Computer Information Systems. A minimum of 26 hours is required, including 6 foundation hours, 14 technique hours, and at least 6 elective hours. Foundation courses (6 hours) include GEOG 103/GEOL 103 or GEOL 111 or METR 121, and GEOG 110. Technique requirements (14 hours) include the following: GISC 316, GISC 317, GISC 417, GISC 419. Six-hours of electives should be selected from: GISC 414, GISC 418, GISC 423, GISC 443, GISC 477, or GEOG 492.

Minor in Environmental Studies and Sustainability

Reference Number: 479
Minimum Hours for Minor: 22

The minor in sustainability requires 22 semester hours. The minor provides students with the environmental science knowledge and the theoretical foundation to approach decision making in a way that is sustainable for the long term. They will understand how both individual and societal decision-making impacts the environment. Completion of the minor will enable students to examine objectively the impact of specific human activities on the environment and how to mitigate the negative ramifications.

The following courses are required for the 22 hours in the minor (12 hours must be upper level):

Foundation Courses: GEOG 280, GEOG 380, and GISC 216.

Elective courses (at least two disciplines must be represented): AGRO 454, AMS 470, ANTH 442, ECON 430, GEOG 210, GEOG 328, GEOG 344, GEOG 378, GEOG 385/EDU 385, GEOG 427, GEOG 452, GEOG 471, GEOG 474, GEOG 481, GEOG 486, GEOG 487, GEOG 489, GISC 414, PH 385, SOCL 470 or other advisor-approved electives.

Geographic Information Systems Certificate

Reference Number: 174
Minimum Hours for Certificate: 20

Geographic Information Systems technology is widely used in business and industry, government, and education. This certificate is designed for students in a variety of disciplines that involve the analysis, mapping, and interpretation of geographic data. Students who complete the program will have a solid foundation that spans the collection, management, analysis, interpretation, and display of data using geographic information systems. They will gain practical experience by completing projects that require the use of sophisticated GIS functions. Finally, they will learn how to develop and implement customized GIS applications.

The program is housed in the Department of Geography and Geology. It consists of a series of four courses taken for a total of 20 credit hours. The courses are GEOG 103 or GEOL 103 or GEOL 111 or METR 121, GISC 316, GISC 317, GISC 417, and GISC 419.

Graduate Programs − The Master of Science in geoscience programs are designed to provide advanced training for those students pursuing administrative and other higher level employment or who plan to continue their graduate education at other universities offering Ph.D. degrees. The department also offers a JUMP (Joint Undergraduate Master's Program) in which students can earn a Bachelor of Arts and a Master of Science in five years. While the specializations in the geosciences are similar to those offered at the undergraduate level, emphasis is placed on independent research under the guidance of a graduate advisor. There are many funded research projects within the Department for qualified students. Graduate students are required to write a Master's thesis that derives from independent research in a topic of their choosing. The department also offers a graduate certificate in Geographic Information Science. The department also cooperates with the College of Education in offering a Master of Arts in Education – Geography Education for Teacher Leaders degree with emphases on cultural geography for social studies teachers and earth science for STEM teachers.

A number of assistantships are available to outstanding graduate students. For further information see The Graduate School's website at www.wku.edu/graduate.

Joint Undergraduate-Master's Degree Programs (JUMP)

The Geography and Geology Department's JUMP program provides academically outstanding students the opportunity to complete both a Bachelor of Science (BS) and Master of Science (MS) degree in approximately five years. Students can complete a BS in Geography and Environmental Studies, Geology, Meteorology, or Geographic Information Science and an MS in Geoscience degree concurrently.

Department of Mathematics

Dr. Bruce Kessler, Head

Professor Mark Robinson, Asst. Department Head
Professor David Neal, Lead Advisor

College High Hall, Office 4124
Phone: 270-745-3651; Fax: 270-745-3699
Email: math@wku.edu
Website: www.wku.edu/math

Professors: F. Atici, C. Ernst, N. Iraniparast, B. Kessler, D. Lanphier, D. Neal, L. Nguyen, T. Richmond, M. Robinson, J. Spraker
Associate Professors: M. Autin, T. Bhattacharya, J. Brockman, K. DuCloux, M. Dunkum, E. Emanuel, M. Jackson, M. Jones, M. Khenner, H. Marchionda, S. Munasinghe, N. Nguyen, A. Por, R. Schugart
Assistant Professors: D. Clark, N. Gerstenschlager, O. Ozer
Instructor I: J. Brown, T. Miick, L. Plumlee,
Instructor II: R. Ayers, E. Billingsley, L. Wells
Transitional Retirees: L. Fitzpatrick

Mathematics courses at the University are designed with the interests and needs of varying groups of students in mind.

Mathematics majors are available to those planning to pursue careers in secondary and middle grades education, as well as to those whose preparation is being directed toward positions in business and industry, or toward further work in mathematics at the graduate level. In addition, several courses are offered to meet the demands for the mathematical training of students whose major educational objectives are not directly related to mathematics. Mathematics majors are assigned advisors from among the departmental faculty and are required to consult with these advisors before each registration period.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the sub-sections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations.

Some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

This department offers the following majors and minors:

- **Major:** Non-teacher certifiable major in mathematics (reference number 728)
- **Major:** Mathematics extended major for employment in industry and/or graduate studies in mathematics (reference number 528)
- **Major:** Mathematics major certifiable for teaching secondary level mathematics (reference number 728)
- **Major:** Middle grades mathematics (reference number 730)
- **Major:** Mathematical Economics (reference number 731)
- **Minor:** Mathematics (reference number 417)
- **Minor:** Applied Statistics (reference number 313)

Admission Requirements
To be fully admitted to the majors in mathematics with reference numbers 728 or 528, students must complete the following admission requirements:

- Earn a "C" or better in each of the following courses: MATH 136, MATH 137, and MATH 307 (or MATH 310).
- Have an overall GPA of at least 2.4 in the mathematics program courses completed prior to admission (MATH 136, MATH 137, and MATH 307 (or MATH 310).
- Note: If a course is repeated, then the second grade is used to compute the GPA. If a course is repeated multiple times, then the average of all grades after the first attempt is used to compute the GPA. **Students can earn a grade in a course a maximum of three times.**

Major in Mathematics

Program Coordinator: Tom Richmond

Reference Number: 728P (seeking admission)
728 (officially admitted)
Minimum Hours for Major: 36-39

Minimum Hours for Degree: 120
Degree: Bachelor of Arts

Sample Degree Path for Concentration:
Non-Teacher Certifiable: http://wku.edu/degreepaths/18-19/documents/ocse/math_nonteacher_728.pdf
Teacher Education: http://wku.edu/degreepaths/18-19/documents/ocse/math_teacher_cert_728.pdf

Reference Number: 528P (seeking admission)
528 (officially admitted)
Minimum Hours for Major: 51

Minimum Hours for Degree:120
Degree: Bachelor of Arts

Suggested Programs of Study Per Concentration:
Fundamentals of Analysis & Discrete Mathematics: http://wku.edu/degreepaths/18-19/documents/ocse/math_fund_analysis_discrete_528.pdf
Fundamentals of Applied Math: http://wku.edu/degreepaths/18-19/documents/ocse/math_fund_applied_math_528.pdf
Fundamentals of Math Studies: http://wku.edu/degreepaths/18-19/documents/ocse/math_fund_math_studies_528.pdf

A major in mathematics provides a Bachelor of Arts degree and requires either a minimum of 36-39 semester hours for a general major with a minor or second major or a minimum of 51 semester hours for an extended major. Note: All mathematics courses listed as prerequisites for other mathematics courses must have been completed with a grade of "C" or better.

Students who wish to declare a 728 or 528 mathematics major will initially be designated as "seeking admission" until the following requirements have been satisfied:

- Complete MATH 136, MATH 137, and MATH 307 or MATH 310, with a grade of "C" or better in each course.
- Have an overall GPA of at least 2.4 in mathematics program courses (MATH 136 and above) completed prior to admission.

The general major (728) offers two options: (1) Non-teacher certifiable Major in Mathematics; (2) Major Certifiable for Teaching Secondary Level Mathematics. The extended major (528) offers only the first option. Option 1 students in the general major (728) are required to satisfy a computational requirement by completing either one course chosen from CS 180, CS 181, PHYS 316, or PHYS 318, while those in the extended major (528) are required to satisfy a computational requirement by completing two courses chosen from CS 180, CS 181, MATH 371, PHYS 316, or PHYS 318. [If MATH 371 is selected for this requirement, it cannot also be used as an elective in the extended major (528).] Option 2 students are required to complete either CS 170 or CS 180.

Option 1: Non-Teacher Certifiable Major in Mathematics

(A) General Major (728): The student must complete a minimum of 39 hours of mathematics with a minor or second major giving a total of at least 59 hours (53 unduplicated) with the following requirements:

1. MATH 136, MATH 137, MATH 237, MATH 307, MATH 310, MATH 317, MATH 337, MATH 498.
2. Two courses from: MATH 405, MATH 406, MATH 415, MATH 417, MATH 423, MATH 431, MATH 435, MATH 439, MATH 450, MATH 470, MATH 473, MATH 482.
3. Six elective hours from: MATH 275 (up to 3 hours), STAT 301, MATH 305, MATH 315, MATH 323, MATH 331, MATH 370, MATH 371, MATH 382, MATH 398 (up to 3 hours), MATH 405, MATH 406, MATH 415, MATH 417, MATH 423, MATH 435, MATH 439, MATH 450, MATH 470, MATH 475 (up to 6 hours), MATH 482.
4. Students may take certain 500-level mathematics courses for undergraduate credit with the approval of the Dept. Head in place of courses listed in items 2 or 3.
5. Note: This major is not intended to prepare students adequately for graduate mathematics. Students intending to seek a graduate degree should pursue major 528.

(B) Extended Major (528): To prepare for graduate study in mathematics, the student must complete a minimum of 51 hours of mathematics with the following requirements:

1. MATH 136, MATH 137, MATH 237, MATH 307, MATH 310, MATH 317, MATH 337, MATH 431, MATH 498.
2. Have a concentration in one of the following areas: B1, B2, or B3.

   B1: Fundamentals of Analysis and Discrete Mathematics:

   i. MATH 417, MATH 439, MATH 450
   ii. Two courses from: MATH 315, MATH 323, MATH 415, MATH 423, MATH 473
   iii. Six additional elective hours from: MATH 275 (up to 3 hours), STAT 301, MATH 305, MATH 315, MATH 323, MATH 331, MATH 370, MATH 371 (provided MATH 371 was not used to satisfy the computational requirement), MATH 382, MATH 398 (up to 3 hours), MATH 405, MATH 406, MATH 409, MATH 415, MATH 423, MATH 435, MATH 470, MATH 473, MATH 475 (up to 6 hours), MATH 482.

   B2: Fundamentals of Applied Mathematics

   i. MATH 331, MATH 370, MATH 382, MATH 405.
   ii. Two courses from: MATH 305, MATH 406, MATH 435, MATH 470, MATH 482
   iii. Three credit hours from MATH 275, STAT 301, MATH 305, MATH 315, MATH 323, MATH 371 (provided MATH 371 was not used to satisfy the computational requirement), MATH 398, MATH 406, MATH 409, MATH 415, MATH 417, MATH 423, MATH 435, MATH 439, MATH 450, MATH 470, MATH 473, MATH 475, MATH 482.

   B3: Fundamentals of Mathematical Studies

   i. MATH 450
   ii. Two courses from: MATH 405, MATH 406, MATH 409, MATH 415, MATH 417, MATH 423, MATH 435, MATH 439, MATH 470, MATH 473, MATH 482.
   iii. Twelve additional elective hours from MATH 275 (up to 3 hours), STAT 301, MATH 305, MATH 315, MATH 323, MATH 331, MATH 370, MATH 371 (provided MATH 371 was not used to satisfy the computational requirement), MATH 382, MATH 398 (up to 3 hours), MATH 405, MATH 406, MATH 409, MATH 415, MATH 423, MATH 435, MATH 470, MATH 473, MATH 475 (up to 6 hours), MATH 482.
3. Students may take certain 500-level mathematics courses for undergraduate credit in place of courses listed in items B1i, B1ii, B2i, B2ii, B3i, or B3ii with the approval of the mathematics department head. No minor or second major for the extended major is required.
4. Also required is PHIL 215 or EE 180.

Option 2: Major Certifiable for Teaching Secondary Level Mathematics General Certifiable Major (reference number 728): The student must complete a minimum of 36 hours of mathematics with a second major in Science and Mathematics Education (SMED) and with the following requirements:

1. MATH 136, MATH 137, MATH 237, MATH 304, MATH 307, MATH 310, MATH 317, MATH 323, MATH 498; STAT 301. Before the "professional semester," the student must complete each of these courses with a grade of "C" or better and achieve a GPA of at least 2.5 in required mathematics courses.
2. At least 3 hours of 400-level mathematics from the following list: MATH 405, MATH 406, MATH 409, MATH 415, MATH 417, MATH 421, MATH 423, MATH 431, MATH 435, MATH 439, MATH 450, MATH 470, MATH 482.

Students in this option must have a second major in science and mathematics education (SMED). In addition, students must attain a grade of "C" or better in each required mathematics course and a 2.5 GPA for all required mathematics courses.

Major in Middle Grades Mathematics

Program Coordinator: Natasha Gerstenschlager Wilson

Reference Number: 730P (seeking admission)
730 (officially admitted)
Minimum Hours for Major: 34

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/math_middle_grades_teacher_cert_730.pdf

A major in Middle Grades Mathematics is for students who plan to teach mathematics in grades 5-9 only. The degree requires a second major in science and mathematics education (SMED). Upon successful completion of both majors, the student will receive a Bachelor of Science degree.

Students who wish to declare a 730 middle grades mathematics major will initially be designated as "seeking admission" until the following requirements have been satisfied:

- Complete 3 of the following with a "C" or better in each course: MATH 136, MATH 183, MATH 205, MATH 206, MATH 225.
- Have an overall GPA of at least 2.5 in all middle grades mathematics program courses (MATH 136 and above) completed prior to admission.
- Note: If a course is repeated, then the second grade is used to compute the GPA. If a course is repeated multiple times, then the average of all grades after the first attempt is used to compute the GPA.

The student must complete a minimum of 34 hours in mathematics by taking the following required courses: MATH 136, MATH 183 or STAT 301, MATH 205, MATH 206, MATH 225 or MATH 310, MATH 304, MATH 308, MATH 403 or MATH 323, MATH 411 or MATH 421, MATH 413, and 3 hours of MATH 490 or MATH 498. Students must attain a grade of "C" or better in each required course and must have a 2.75 GPA overall in required mathematics courses.

Major in Mathematical Economics

Program Coordinator: Ngoc Nguyen

Reference Number: 731P (seeking admission)
731 (officially admitted)
Minimum Hours for Major: 49

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Actuarial Science: http://wku.edu/degreepaths/18-19/documents/ocse/math_mathematical_economics_actuary_731.pdf
General Mathematical Economics:
http://wku.edu/degreepaths/18-19/documents/ocse/math_mathematical_economics_general_731.pdf

The major in Mathematical Economics requires a core of 18 hours in economics, 15 hours in mathematics, and 1 hour of an interdisciplinary senior seminar course. The concentration in general mathematical economics requires an additional 9 hours in economics and 6 hours in mathematics. The concentration in actuarial science requires an additional 3 hours in economics, 9 hours in mathematics, 12 hours in finance, and 3-4 hours in computer science. This major leads to a Bachelor of Science degree intended for students interested in graduate studies in economics, public policy, or business, as well as those students seeking a career as an actuary or analytical careers in economics that will require extensive mathematics backgrounds.

The program of study does not require completion of a second major or minor.

All majors must complete a 34-hour core consisting of ECON 202, ECON 203, ECON 206 (or STAT 301), ECON 302, ECON 303, ECON 465; MATH 136, MATH 137, MATH 237, MATH 307; and ECON 497 or MATH 497. Additionally, majors must choose a concentration in either General Mathematical Economics or Actuarial Science. Majors in the General Mathematical Economics concentration must complete ECON 306 or ECON 307, and ECON 464. Additionally, either MATH 331 or MATH 310 must be completed, and students must take three additional hours from either MATH 331, MATH 310, MATH 305, MATH 382, MATH 435, or MATH 405. The remaining 3 hours in economics for completion may be selected from other 300-and 400-level economics courses. Majors in the Actuarial Science concentration must complete ECON 307; MATH 310, MATH 382, and MATH 482; FIN 330, FIN 337, FIN 350, and FIN 437; and CS 170 or CS 180.

Admission to the mathematical economics major requires (1) the completion of MATH 136, ECON 202 and ECON 203, and ECON 206 or STAT 301 with a minimum GPA of 2.0 in the courses listed; and (2) completion of a minimum of 60 hours with a minimum GPA of 2.0 overall; and (3) completion of a minimum of 12 hours at Western Kentucky University with a minimum WKU GPA of 2.0. All mathematical economics majors will be required to enroll in an interdisciplinary senior seminar course prior to graduation (ECON 497 or MATH 497, 1 hour).

Minor in Mathematics (Minor for Employment in Industry and/or Graduate Studies in Mathematics)

Reference Number: 417
Minimum Hours for Minor: 24

Program Coordinator: Tom Richmond

A minor in mathematics requires a minimum of 24 semester hours. In addition to the foundational sequence (MATH 136, MATH 137, MATH 237, and either MATH 307 or MATH 370), the student is required to select at least nine hours from MATH 3XX*, MATH 4XX*, or STAT 301**.

*Students may not count MATH 304, MATH 308, MATH 403, MATH 411, MATH 413, MATH 421, or MATH 490 toward the minor. MATH 398 may count toward the minor only if the student completes MATH 498.

** Students may not count both MATH 382 and STAT 301 in the minor.

Minor in Applied Statistics

Program Coordinator: Ngoc Nguyen

Reference Number: 313
Minimum Hours for Minor: 19

A minor in applied statistics requires a minimum of 19 semester hours. This program is designed for a student seeking a career as a statistical programmer/analyst/consultant in a knowledge-based industry or in a research institution.

The student who elects a minor in applied statistics must complete a minimum of 16 required credit hours, as follows: MATH 136 or MATH 142, STAT 301, STAT 330, STAT 401, and STAT 402.

In addition, the student is required to take at least 3 credit hours of relevant elective coursework from the following: (1) any 300-level or 400-level STAT course other than STAT 301, STAT 330, STAT 401, and STAT 402; (2) MATH 482; (3) at least 3 credit hours of 300-400 level statistical coursework relevant to the student's area of study (with prior approval from the Statistics Education Committee of the Department of Mathematics).

Grades K-5 Certification − All students seeking grades K-5 certification must satisfy the Quantitative Reasoning course in the Foundations section of the Colonnade program prior to enrolling in the required courses: MATH 205, MATH 206, and MATH 308.

Data Analysis using SAS® Certificate

Program Coordinator: Ngoc Nguyen

Reference Number: 1716
Minimum Hours for Certificate: 15

The Certificate in Data Analysis using SAS requires a minimum of 15 semester hours. This certificate is designed for a student seeking a career as a statistical programmer/analyst/consultant in a knowledge-based industry or in a research institution.

To be eligible for the program, the student must have completed MATH 136 (formerly MATH 126) or MATH 142 (or equivalent) with a grade of "C" or better. The student pursuing a Certificate in Data Analysis using SAS must complete a minimum of 12 credit hours of core statistics courses as follows: STAT 301, STAT 330, STAT 401, STAT 402. In addition, this student is required to take at least 3 credit hours of courses using SAS, selected from the following courses:

- Any 300-level or higher STAT course using SAS, other than STAT 301, STAT 330, STAT 401, and STAT 402.
- MATH 498. Students are required to provide an electronic copy of their paper to the Statistics Education Committee of the Department of Mathematics to verify the use of SAS software.
- Any 300-level or higher course using SAS in another department, with prior approval from the Statistics Education Committee of the Department of Mathematics.

Graduate Programs − The Department of Mathematics offers graduate courses for the Master of Arts and Master of Science in mathematics. We also provide a means for students to earn both their Bachelor of Arts and Master of Science in 5 years. Mathematics coursework is also provided for those seeking graduate degrees in elementary or middle grades education. Several assistantships are available for qualified graduate students. Additional information on admissions and graduate assistantships for the graduate programs in Mathematics can be obtained from www.wku.edu/graduate or Dr. Dominic Lanphier, Director of Graduate Studies in Mathematics (270-745-6233).

Department of Physics and Astronomy

Dr. Michael Carini, Chair

Thompson Complex, Central Wing, Office 246
Phone: 270-745-4357; Fax: 270-745-2014
Email: info@physics.wku.edu
Website: www.wku.edu/physics

William McCormack Professor of Physics: Charles H. McGruder, III
Madole Professor of Physics: Douglas Harper
Professors: M. Carini, V. Dobrokhotov, G. Emslie, R. Gelderman, W. Van der Meer
Associate Professors: S. Bonham, S. Gibson, S. Gupta, I. Novikov
Assistant Professor: A. Er
Instructor I: J. Boyles, T. Lee
Professors Emeriti: K. Andrew, D. Bryant, K. Hackney, D. Humphrey, P. Womble, R. Scott

The Department of Physics and Astronomy offers a Bachelor's of Science in Physics, with degree pathways tailorable to meet student career goals.

We have pathways designed for students who chose to pursue careers as physicists in government or industrial laboratories, for careers in engineering and other professional fields, for teaching in public schools, or, for entering advanced programs at the graduate level in Physics, Astronomy or related disciplines (e.g. Medical Physics). Our world renown faculty and state of the art research facilities allow us to provide opportunities for students to engage in hands-on research experiences where they apply their classroom knowledge to real world problems.

Physics laboratories and classrooms are located on the second floor of the Thompson Complex Center Wing (TCCW), the basement and first floor of Ogden College Hall (OCH) and the Applied Physics Institute (API, located at the Center for Research and Development). The Hardin Planetarium, located next door to TCCW, supports astronomy laboratories and demonstrations for classes, regular focused presentations of astronomy and the physical universe for school groups and the general public. The observatory on top of TCCW provides students with convenient access to the department's 12.5 inch Cassegrain reflector and several smaller telescopes and also provides monthly opportunities for public viewing. Faculty make use of the latest research-based physics teaching pedagogies in all our undergraduate classes. Our physics teaching laboratories are equipped with modern laboratory equipment and data acquisition interfaces using software that is standard in the physics and engineering community.

Modern laboratory facilities and equipment, rivaling those found at more research focused institutions, allow us to provide student centered research experiences for all Physics majors. The diversity of research engagement possibilities is a major strength of our undergraduate program, allowing students to benefit from a breath of available interest and specializations. Undergraduate students are strongly encouraged to participate in research opportunities with faculty members. Individual student research projects may start as early as the sophomore year, supported in most cases by available assistantships and/or formal course credit. The API houses an X-ray diffractometer, neutron generator, Auger spectrometer, Beowulf Computer Cluster and a Large Chamber Scanning Electron Microscope. The materials science lab houses a micro-Raman spectrometer and a thermal Chemical Vapor Deposition reactor for nano-carbons and other nanomaterials. The laser lab houses a nanosecond IR laser, excimer laser, spectrophotometer, gas chromatography, and ultrahigh vacuum chamber. The department also operates two research grade astronomical telescopes: the local 0.6m Bell Observatory located 12 miles southwest of WKU and the 1.3 meter Robotically Controlled Telescope (RCT) located outside Tuscon, AZ. Both facilities are available for, and in case of Bell Observatory, operated by undergraduate students. Descriptions of current research studies by faculty members and specific research opportunities available to undergraduate students are available on the department's website.

The department sponsors a local chapter of the nationally affiliated Society of Physics Students (SPS) for students interested in physics, as well as a section of the Sigma Pi Sigma honor society. The local SPS chapter sponsors or participates in a variety of social and service activities related to physics, including field trips, trips to scientific meetings, tutoring, and interacting with students from area schools.

The Hilltopper Astronomy Club provides support for students interested in astronomy both as a hobby and a science. Regular observing sessions, informal meetings, and various projects are some of the benefits available to members.

When planning a program of study in physics, each student should be aware of the University academic requirements and regulations contained in this catalog in the chapter, "Academic Information." Specific attention should be given to the sub-sections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. All students, from freshman to seniors, are required to meet with their department academic advisor (Dr. Richard Gelderman for freshman and sophomore level students; juniors and seniors are assigned a department advisor after completion of PHYSICS 321) each semester in order to plan their schedule for the following semester and/or to discuss and plan their career options.

Major in Physics

Reference Number: 754
Minimum Hours for Major: 35

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Plan for Concentration:
No Concentration: http://wku.edu/degreepaths/18-19/documents/ocse/physics_754.pdf

Physics Education: https://www.wku.edu/degreepaths/18-19/documents/cebs/education_physics_754_774.pdf

The major in physics requires a minimum of 35 semester hours and leads to a Bachelor of Science degree. A minor or second major is required. The foundation for the undergraduate major is provided by a core sequence of six lecture and five laboratory courses, requiring a total of 29 semester hours. This core sequence consists of the following:

- PHYS 180/PHYS 181 (4) Introductory Modern Physics and Lab
- PHYS 255/PHYS 256 (5) University Physics I and Lab
- PHYS 265/PHYS 266 (5) University Physics II and Lab
- PHYS 301 (1) Electrical Measurements Lab
- PHYS 302 (1) Atomic Lab
- PHYS 316 or PHYS 318 Computational Physics or Data Acquisition (3)
- PHYS 321 (3) Introductory Modern Physics II
- PHYS 350 (3) Classical Mechanics I
- PHYS 398 (.5) Junior Seminar
- PHYS 440 (3) Electricity and Magnetism I
- PHYS 498 (.5) Senior Seminar

The student majoring in physics must complete, in addition to this core, a minimum of 6 semester hours of selected upper division departmental courses. The selection is determined by the student's career aspirations, subject to approval by the student's departmental advisor. The upper division electives must be chosen from the courses listed for *Physics Majors* and *Minors*, excluding PHYS 389, PHYS 399, and PHYS 489. No more than 3 hours of PHYS 475 may be counted toward the 35 hour minimum requirement for the major. Support requirements include MATH 136, MATH 137, MATH 237, MATH 307 (or MATH 370 for applied physics track), and MATH 331; CHEM 120/CHEM 121. (Support requirements differ for teacher certification; see below.) The department has prepared several career-oriented tracks, which detail relevant departmental electives and additional or departmentally-approved substitute support courses. Advising tracks currently defined within the Bachelor of Science in physics program include the following:

1. The general physics track is designed for those students who wish to pursue careers as physicists or are preparing for graduate study in physics.
2. The applied physics track combines extensive technical knowledge, related problem-solving skills, and computer techniques and internship opportunities to prepare students for positions in industrial and governmental laboratories.
3. The physics and astronomy track prepares students for careers in astronomy/space science and for graduate study in these areas.
4. The teacher certification track prepares students for careers teaching physics at the secondary school level. The student must also complete professional education requirements as specified by the School of Teacher Education. Students in this option must have a second major in science and math education (SMED).
5. Other - There are some specified programs such as a suggested pre-medicine curriculum for students wishing to major in physics. Course recommendations for these tracks are available from the departmental academic advisor. In all cases, the student must work closely with the departmental advisor from the beginning to plan a program of study that meets departmental and University requirements and that maximizes preparation to meet career goals.

Transfer of Credit − Transfer courses are welcomed and approved through the Physics faculty and College Dean.

Minor in Astronomy

Reference Number: 318
Minimum Hours for Minor: 20
The minor in astronomy is designed to provide a background in astronomy, astrophysics, and planetary science for students from a wide range of backgrounds. Students who intend to undertake graduate work in astronomy should complete a major in physics with a minor in mathematics. A minor in astronomy consists of at least 16 credit hours of required core courses and at least 4 credit hours from the list of restricted electives. The core requirements are ASTR 214 (4 hrs); ASTR 314 (4 hrs); and an introductory sequence of classical physics: PHYS 255/PHYS 256 and PHYS 265/PHYS 266 (10 hours); or PHYS 201 and PHYS 202 (8 hours); or PHYS 231/PHYS 232 and PHYS 332/PHYS 233 (8 hours). Physics majors must substitute GEOL 111/GEOL 113 for PHYS 255/PHYS 256. The actual number of elective credit hours required for an astronomy minor is dependent upon satisfaction of the university requirement that at least one-half of the credits required for each major or minor be earned in courses numbered 300 and above. The list of restricted electives includes: ASTR 305, ASTR 414, PHYS 316, PHYS 441/PHYS 404, PHYS 445, PHYS 450, PHYS 465, GEOL 325, GEOL 330, GEOL 350, GEOL 370, GEOL 420 or GEOL 465.

Minor in Biophysics

Reference Number: 329
Minimum Hours for Minor: 18
The minor in biophysics requires a minimum of 18 semester hours. This course sequence is intended to serve students of the life sciences, that is, students of biology, pre-medicine and pre-dental, agriculture, environmental health, psychology, science teaching, environmental engineering, pre-veterinary, pre-pharmacy and pre-optometry. In general, this curriculum treats the physics of life processes and various applications of physics to biology and medicine. (See the Biophysics Minor section in this catalog.)

Required courses: PHYS 231/PHYS 232, PHYS 332/PHYS 233, and PHYS 335 or PHYS 337 or PHYS 431 or PHYS 359 or PHYS 379; and at least 6 hours of upper division electives selected from appropriate physics and/or biology courses approved by a biophysics advisor.

Minor in Physics

Reference Number: 435
Minimum Hours for Minor: 23

The minor in Physics requires a minimum of 23 semester hours including the following courses: PHYS 180, PHYS 255, PHYS 265, PHYS 321, and a minimum of nine semester hours selected from the PHYS lecture courses in the course descriptions of this catalog, PHYS prefix, under the heading PHYSICS MAJORS AND MINORS.

Course Categories

The courses offered by the Department of Physics and Astronomy belong to four categories according to clientele:

1. **Colonnade Courses**
   General courses treating a selection of coordinated topics in sufficient depth to be beneficial to the non-science students, which fulfill Colonnade general education requirements; 100-level.
2. **Science and Math Majors and Minors**
   Introductory courses for science and math students; mainly 200-level.
3. **Education Majors and Minors**
   Upper division courses for prospective teachers; 300- and 400-level.
4. **Physics Majors and Minors**
   Upper division courses for students following the program options of physics, physics education, dual-degree: 300- and 400-level.

Teacher Certification Programs − Students interested in high school or middle school certified teaching programs should refer to the SKyTeach program listed at the beginning of the section on Ogden College of Science and Engineering.

Graduate Programs − The Department of Physics and Astronomy offers the Master of Arts in Education (physics minor) and Master of Science in Homeland Security Sciences. For more information contact info@physics.wku.edu.

Department of Psychological Sciences

Dr. Kelly Madole, Chair

Gary Ransdell Hall, Office: 3074
Phone: 270-745-3918
Website: http://www.wku.edu/psychological-sciences/index.php
Facebook:
www.facebook.com/PsychologicalSciencesatWKU
E-mail: psychsciences@wku.edu

Professors: G. Baylis, R. Brown, E. Lemerise, K. Madole, S. Mutter, F. Norman, E. Shoenfelt
Associate Professors: L. Baylis, A. Brausch, L. Hahn, D. Lickenbrock, A. Mienaltowski, M. Shake, A. Wichman
Assistant Professors: J.Teeters
Visiting Assistant Professor: M. Woodward
Instructor I: M. Asriel
Instructor II: H. Norman

The study of behavior is one of the most popular areas of interest for students worldwide. Studying human behavior from a scientific perspective offers numerous opportunities for students. A degree in Psychological Science can open up a wide variety of career options or serve as a foundation for graduate or professional study because, in addition to learning how to understand people, our curriculum emphasizes learning how to collect, analyze, and think critically about data.

Our B.S. degree in Psychological Science was designed to meet the American Psychological Association's guidelines for a high quality undergraduate psychology program by offering both the depth and breadth that students will need for additional graduate or professional study or in the workplace.

One of the most unique aspects of our program is the option to specialize in one of a number of thematic concentrations. Students also have outstanding opportunities to collaborate with faculty and other students on a wide range of research topics in psychology including neuroscience, cognition, developmental science, social psychology, clinical psychology, industrial/organizational psychology, perception, and experimental psychology.

Major in Psychological Sciences

Reference Number: 747
Minimum Hours for Major: 38-50
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Plan for Concentration:
Applied Psychological Science: http://wku.edu/degreepaths/18-19/documents/osce/psychological_sciences_applied_747.pdf

Biobehavioral Psychology: http://wku.edu/degreepaths/18-19/documents/ocse/psychological_sciences_biobehavioral_747.pdf

Clinical Psychological Science: https://wku.edu/degreepaths/18-19/ocse/psychological_sciences_clinical_747.pdf

Cognitive Psychology: https://wku.edu/degreepaths/18-19/documents/ocse/psychological_sciences_cognitive_747.pdf

*General Psychology:*https://wku.edu/degreepaths/18-19/documents/ocse/psychological_sciences_general_747.pdf

Developmental Science: https://wku.edu/degreepaths/18-19/documents/osce/psychological_sciences_developmental_747.pdf

Quantitative Psychology: http://wku.edu/degreepaths/18-19/documents/ocse/psychological_sciences_quatitative_psych_747.pdf

Social Psychology: http://wku.edu/degreepaths/18-19/documents/ocse/psychological_sciences_social_747.pdf

The Department of Psychological Sciences offers programs designed for students who are interested in a science – oriented degree that will prepare them for graduate study in psychology or a related field (e.g., medical school, pharmacy, physical therapy) or for employment in jobs where strong quantitative and research skills are required. The department provides two options for the Bachelor of Science degree. The first option requires a minimum of 38 credit hours and a minor or second major is required. The second option requires a minimum of 50 unduplicated credit hours and no minor or second major is required. For both options, students will complete a program of study that includes Core and Concentration components as well as a Laboratory Experience component. To complete the Core requirement, students will select a total of 25 to 28 credit hours from the following categories: Foundations of Psychology, Developmental Processes, Learning and Cognition, Individual Differences and Social Processes, Biological Bases of Behavior and Mental Processes, Research Methods and Statistics, and Integrative Science in Psychology. To complete the Concentration requirement, students will select courses from one or two of the seven thematic concentrations or they may design a general concentration (subject to approval by their advisor). To complete the Laboratory Experience component, students will complete one PSYS lab course or one PSYS lecture/lab course at the 300-level or above. Students in the 38-hour option will complete 12 credit hours from one thematic concentration, or design a custom concentration by selecting 12-24 hours from PSYS courses not used to satisfy their Core requirement. Students choosing the 50-hour option will complete 21-24 credit hours from two concentrations or 24 – 25 hours from the quantitative psychology concentration.

Students must maintain a minimum 2.50 GPA both overall and in the major. Either (1) MATH 116 and MATH 117, or (2) MATH 118 or higher is required; MATH 183 is recommended. Students who select the 50-hour option with the quantitative psychology concentration must complete MATH 136.

Students in the 38-hour option of the Psychological Science major can count no more than 3 credits of PSYS 490 toward the major. Students in the 50-hour option may count no more than 6 credits of PSYS 490 toward the major, with no more than 3 credits counting toward a single concentration's requirements.

Applied Psychological Science. This concentration focuses on how psychological science can be used to solve real-world problems in business, sports, or human engineering domains.

> **Core Courses:** PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 333, PSYS 350, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490
>
> **Concentration Courses:** Required: PSYS 413
> Electives: Choose 9 hours from PSYS 353, PSYS 360 or PSYS 362 or PSYS 363, PSYS 370, PSYS 433, PSYS 473, PSYS 481, PSYS 490, PSYS 499, PSY 340, PSY 355, PSY 412, PSY 470.
>
> **Laboratory Experience:** Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Biobehavioral Psychology. This concentration provides knowledge of the biological bases of behavior and thought.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 331, PSYS 350 or PSYS 440, PSYS 360 or PSYS 362, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration Courses: Required: PSYS 363
Electives: Choose 9 hours from PSYS 333, PSYS 431, PSYS 462, PSYS 463, PSYS 465, PSYS 483, PSYS 490, PSYS 499.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Clinical Psychological Science. This concentration focuses on mechanisms and etiologies of psychological health and dysfunction.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 331 or PSYS 333, PSYS 440, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration Courses: Choose 12 hours from PSYS 350, PSYS 353, PSYS 360 or PSYS 362, PSYS 413, PSYS 423, PSYS 425, PSYS 442, PSYS 450, PSYS 451, PSYS 453, PSYS 462, PSYS 465, PSYS 482, PSYS 481, PSYS 490, PSYS 499.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Cognitive Psychology. This concentration emphasizes the scientific study of mental processes such as attention, perception, memory, problem-solving, thinking, and language use.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 333, PSYS 350 or PSYS 440, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration Courses: Choose 12 hours from PSYS 331, PSYS 363, PSYS 423, PSYS 431, PSYS 433, PSYS 462, PSYS 490, PSYS 499, PSY 412.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Developmental Science. This addresses the physical, emotional, intellectual, social, perceptual, and personality growth of humans throughout the lifespan.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 331 or PSYS 333, PSYS 350 or PSYS 440, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration Courses: Choose 12 hours from PSYS 220, PSYS 321, PSYS 423, PSYS 424, PSYS 425, PSYS 431, PSYS 463, PSYS 482, PSYS 490, PSYS 499.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Social Psychology. This concentration emphasizes the study of how social situations affect behavior.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 331 or PSYS 333, PSYS 350, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration Courses: Required: PSYS 413.
Electives: Choose 9 hours from PSYS 353, PSYS 433, PSYS 440, PSYS 450, PSYS 451, PSYS 453, PSYS 463, PSYS 483, PSYS 490, PSYS 499, PSY 412.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

General Concentration. This concentration allows students, with help from their advisor, to design an individualized theme.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 331 or PSYS 333, PSYS 350 or PSYS 440, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration: Course select 12-24 hours of electives from PSYS courses not used to satisfy Core requirements.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Quantitative Psychology. This concentration focuses on the use of advanced data manipulation and statistical analysis techniques within psychological science to examine discipline-specific research questions. This concentration requires at least 49 hours, so students do not need a minor or second major. Also students in this concentration do not select another concentration within the Psychological Science Major.

Core Courses: PSYS 100 or PSYS 160, PSYS 220 or PSYS 321, PSYS 331 or PSYS 333, PSYS 350 or PSYS 440, PSYS 360 or PSYS 362 or PSYS 363, PSYS 210, PSYS 211, PSYS 313, PSYS 380 or PSYS 481 or PSYS 490.

Concentration Courses: CS 146 or CS 170 or CS 180, STAT 301, STAT 330, STAT 401 or STAT 402, PSYS 413, and 9 PSYS upper-level elective hours selected in consultation with an advisor.

Laboratory Experience: Select any one PSYS course with a laboratory or lecture/laboratory designation at the 300-level or above.

Minor in Neuroscience

Reference Number: 434
Minimum Hours for Minor: 21

The minor in Neuroscience offers students the opportunity to study the intersection of brain and behavior in a manner that incorporates tools and perspectives from the psychological and biological sciences, and related disciplines. This minor will be an attractive option for students who are (1) planning to pursue advanced study in any of several fields related to neuroscience, including psychology, biology, medicine, counseling, or social work or (2) seeking relevant training for jobs related to the assessment, rehabilitation, and treatment of brain damage, brain diseases, and addiction.

The minor in Neuroscience requires a minimum of 21 credit hours of coursework. This includes 6 hours of the following required courses: PSYS 360 or PSYS 362, and BIOL 335. An additional 15 credit hours in electives may be selected from the following courses: PSYS 331, PSYS 333, PSYS 363, PSYS 462, PSYS 465, BIOL 319, BIOL 327, BIOL 334, BIOL 446/CHEM 446 or PHIL 332. Note: Students must choose at least 1 course from Biology and Psychological Sciences. Students must take PSYS 100 or PSYS 160 and BIOL 120/BIOL 121 prior to beginning their coursework in the minor (some courses available for the minor may have additional prerequisites).

Minor in Psychological Science

Reference Number: 440
Minimum Hours for Minor: 22

The minor in Psychological Science provides graduates with a broad overview of the discipline as well as exposure to the foundations of the discipline. The Psychological Science minor focuses students on becoming more engaged and critical consumers of the science underlying psychology through courses informed by current research and practice in the scientific student of individual and collective behavior, the physical and environmental bases of behavior, and the analysis and treatment of behavioral problems. This minor might appeal to students who are in a pre-professional track (e.g., pre-med) or to students majoring in disciplines where psychological science can inform research and practice (e.g., biology, computer science, philosophy, religious studies, nursing, communication disorders, management, etc.).

The minor requires a minimum of 22 credit hours. The following 7 hours are required: PSYS 100 or PSYS 160, PSYS 210, and PSYS 211. Students must select 3 hours from the following Individual Differences and Social Processes (Category A) courses: PSYS 350, or PSYS 440. Another 3 hours must be selected from Learning, Cognition, and Biopsychology (Category B) courses: PSYS 331, PSYS 333, PSYS 360, PSYS 362, or PSYS 363.

Students must select 3 hours from the following Developmental Processes (Category C) courses: PSYS 220, PSYS 321, or PSYS 423. Six additional upper-level credit hours of PSYS courses are required, which can include the above restricted elective courses that were not taken to meet the requirements of Categories A, B and C or any other upper-level PSYS hours. These hours can include no more than 3 credit hours of PSYS 490.

JUMP (Joint Undergraduate Master's Program)

A five-year Joint Undergraduate Masters Program (JUMP) is available in which students may earn a Bachelor of Science in Psychological Sciences and a Master of Science in Psychology concurrently. This program provides highly qualified students with an excellent opportunity for accelerated study. JUMP students take undergraduate coursework that is applied to the undergraduate degree and graduate coursework that can be applied to both the undergraduate and graduate degrees. Interested students should apply before the completion of 65 hours of undergraduate credit. For more information regarding the MS in Psychology, see www.wku.edu/graduate or contact the department.

Pre-Professional and Interdisciplinary Programs

Pre-Chiropractic Advisement

Advisors: Advisors: Ken Crawford, Steve Huskey, Lynnita Glass

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: 270-745-8894 or 270-745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

WKU has a 3-year (90 semester hours) curriculum designed to prepare potential candidates for entry into a professional chiropractic college. Prior to application at a chiropractic college, candidates must have earned a minimum of 90 semester hours (including at least 48 semester hours in the courses listed below. The candidate is responsible for ensuring that he or she has met those specific and elective requirements of the school(s) to which they are applying.

Although the following requirements will meet current admission guidelines for most chiropractic programs, the student should check the pre-requisites for those schools to which they wish to apply. Completion of these pre-requisites will allow you to compete for available spaces in chiropractic programs, but will not guarantee admission.

- ENG 100 and ENG 300
- BIOL 120/BIOL 121; and BIOL 122/BIOL 123 [or BIOL 131]
- CHEM 120/CHEM 121; and CHEM 222/CHEM 223
- CHEM 314; [or CHEM 340/CHEM 341]
- MATH 116 and MATH 117
- PSY 100/PSYS 100
- PHYS 231/PHYS 232; and PHYS 332/PHYS 233 [or PHYS 201; and PHYS 202/PHYS 208]
- Humanities and Social Sciences: 15 hours of electives selected in consultation with your advisor.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Dentistry Advisement

Advisors: Ken Crawford, Noah Ashley, Eric Conte, Darwin Dahl, Steve Huskey, Lynnita Glass, Les Pesterfield, Ajay Srivastava

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: 270-745-8894 or 270-745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

Students planning a career in dentistry should follow the pre-dentistry curriculum at WKU. All applicants to dental school must take the Dental Admission Test (DAT) approximately one year prior to intended matriculation. Most schools of dentistry have a requirement for observation/ shadowing a practitioner. Students should plan on completing their hours of required observation by the end of the junior year.

- ENG 100 and ENG 300
- BIOL 120/BIOL 121; BIOL 122/BIOL 123; and BIOL 226/BIOL 227
- BIOL 446 or CHEM 446
- CHEM 120/CHEM 121; and CHEM 222/CHEM 223
- CHEM 340/CHEM 341; and CHEM 342/CHEM 343
- MATH 116 and MATH 117
- PHYS 231/PHYS 232

It is highly recommended that students planning a dental career complete the entire four-year curriculum and receive the baccalaureate degree before entering a dental college. A few dental schools will accept students after three years of undergraduate work. One year of satisfactory work in dental school can then be transferred to WKU in order to receive the Bachelor of Science degree.

All requirements for the Colonnade Program and the core courses for a major and minor must be completed before leaving WKU. Courses taken in dental school may then (at the discretion of the department head) be accepted by the major and/or minor departments at WKU allowing the student to receive the bachelor's degree.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional schools of their choice.

Pre-Forestry Advisement

Advisor: Dr. Martin Stone
Environmental Sciences & Technology Building, Office 258
Phone: 270-745-5963
Email: Martin.Stone@wku.edu

Students interested in forestry as a career may enter Western Kentucky University and complete a plan of study comparable to the first two years of a four-year forestry degree program. The program outlined is designed to qualify students to transfer into the forestry program at the University of Kentucky. This program will permit students with grades of "C" or better to transfer to the degree program of Bachelor of Science in Forestry without loss of credits. Students desiring to attend schools other than the University of Kentucky should contact the pre-forestry advisor for specific requirements.

Required courses are: CHEM 105/CHEM 106, CHEM 107/CHEM 108 or CHEM 120/CHEM 121, CHEM 222/CHEM 223; ENG 100, ENG 300, BIOL 120/BIOL 121, BIOL 222/BIOL 223, BIOL 348; PHYS 101; MATH 116, MATH 117, MATH 119; COMM 145; AGRO 110, AGRO 350; SFTY 171; SPAN 101, GEOG 210; CE 160 / CE 161; AGEC 360; AGRI 291 and restricted electives.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Medicine Advisement

Advisors: Ken Crawford, Darwin Dahl, Lynnita Glass, Steve Huskey, Elizabeth Lemerise, Les Pesterfield, Nancy Rice, Ajay Srivastava, Wieb Vandermeer, Robert Wyatt

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: 270-745-8894 or 270-745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

The pre-medicine curriculum has been developed with two objectives in mind. The first objective is to provide the undergraduate student with an academic background that will enable them to succeed in the medical school of their choice. The second objective is to provide the academic credits to earn the Bachelor of Science degree after four years of study. It is required that students planning a medical career complete the entire four-year curriculum and receive the Bachelor of Science degree before entering a medical college.

During the first two years of undergraduate work, the pre-medicine student should complete the majority of the basic science courses that constitute the minimal prerequisites for entrance into medical school.

- ENG 100 and ENG 300
- BIOL 120/BIOL 121; BIOL 122/BIOL 123; and BIOL 224/BIOL 225
- CHEM 120/CHEM 121; and CHEM 222/CHEM 223
- CHEM 340/CHEM 341; and CHEM 342/CHEM 343
- MATH 116, MATH 117 and MATH 136
- PHYS 231/PHYS 232; and PHYS 322/PHYS 233; [or PHYS 255 and PHYS 265]

In preparation for the Medical College Admission Test (MCAT), it is strongly recommended that the pre-medical student choose BIOL 446 or CHEM 446 and BIOL 382 or MATH 183 as electives. PSY 100/PSYS 100 or PSYS 220 and SOCL 100 are also recommended among Colonnade classes.

During the junior and senior years, students with direction from their pre-medical advisor, should complete courses to constitute a major and a minor in addition to completing the Colonnade Program requirements for a degree. All applicants to medical school must take the Medical College Admission Test (MCAT).

In February 2016, the University of Kentucky, School of Medicine announced its intention of opening a branch medical campus in Bowling Green, KY. In partnership with The Medical Center of Bowling Green and WKU, the first class matriculated in fall 2018. Pre-medical students have the opportunity to complete pre-medical studies and all four years of medical school in Bowling Green.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional schools of their choice.

Pre-Occupational Therapy Advisement

Advisors: Lynnita Glass, Wendi Hulsey, Mark Schafer, Matthew Shake

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: (270) 745-8894 or 745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

Occupational therapists and occupational therapy assistants help people across the lifespan participate in the things they want and need to do through the therapeutic use of everyday activities (occupations). Common occupational therapy interventions include helping children with disabilities to participate fully in school and social situations, helping people recovering from injury to regain skills, and providing supports for older adults experiencing physical and cognitive changes.

Students may fulfill pre-occupational therapy requirements at Western Kentucky University and become eligible to submit applications for admission to any doctoral or master's level occupational therapy schools within the United States. These schools vary slightly in their requirements so students should decide after 4 or 5 semesters on the college(s) of occupational therapy to which they plan to submit an application for admission and arrange their schedules in accordance with the requirements of that particular school. Students applying to Occupational Therapy school should take the GRE.

The following courses are typically required:

- BIOL 131 and BIOL 231, Human Anatomy & Physiology I & II with lab
- MATH 183, PSY 210/PSY 211, PSYS 210/PSYS 211, or BIOL 382 Statistics
- PSY/PSYS 440, Abnormal Psychology
- SOC 100, Introduction to Sociology or ANTH 125, Introduction to Anthropology
- Additional Biology Class with Lab
- AH 290, Medical Terminology

Other courses often required: PSY/PSYS 220, CHEM 109, PHYS 201

Please note: Recommended courses are based on WKU's Assessment of specific professional school requirements. Student should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Optometry Advisement

Advisors: Ken Crawford, Lynnita, Glass, Wieb Vandermeer

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: 270-745-8894 or 270-745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

Students may fulfill pre-optometry requirements at Western Kentucky University and become eligible to submit applications for admission to any of the 23 optometry schools within the United States. These schools vary slightly in their pre-optometry requirements. Students should decide after 4 or 5 semesters on the college(s) of optometry to which they plan to submit an application for admission and arrange their schedules in accordance with the requirements of that particular school.

The professional optometric program requires four years of study in a school of optometry. This is in addition to the three or more years of pre-optometry requirements. Applicants to all of the optometry schools are required to take the Optometry Admission Test (OAT).

In the fall of 2016, the Kentucky College of Optometry (Pikeville, KY) welcomed their inaugural class. Through a Memorandum of Agreement between WKU and KYCO, qualified WKU students will have preferred admission status at KYCO.

The courses listed below are required as prerequisites for all optometry schools. Each science course must be accompanied by its appropriate laboratory: BIOL 120, BIOL 122, BIOL 226; CHEM 120, CHEM 222, CHEM 340; PHYS 231, PHYS 332 or PHYS 255, PHYS 265; MATH 116, MATH 117, and MATH 136; ENG 100, ENG 300; PSY 100/PSYS 100 and a course in statistics. There may be additional course requirements that vary with each optometry school.

All students in the curriculum are strongly encouraged to work toward a bachelor's degree, even though a degree is not required for admission to most optometry schools. One year of satisfactory work in optometry school can generally then be transferred to WKU in order to receive the Bachelor of Science degree. All requirements for the Colonnade Program and the core courses for a major and minor must be completed prior to matriculation to optometry school. Courses taken in optometry school may then (at the discretion of the department head) be accepted by the major and/or minor department at WKU allowing the student to receive the bachelor's degree.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Pharmacy Advisement

Advisors: Darwin Dahl, Lynnita Glass, Rodney King

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: (270) 745-8894 or 745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

Students planning a career in pharmacy should follow a pre-pharmacy curriculum at WKU. After completion of a minimum of 70 credit hours, the student may take the Pharmacy College Admissions Test (PCAT) and apply for admission to a school of pharmacy for the remaining four years of training.

The following curriculum contains courses required for admission to the University of Kentucky, College of Pharmacy. The courses required by other schools of pharmacy are much the same; however, the student should investigate the requirements of the school to which they plan to attend in order that every requirement may be included in their pre-pharmacy program.

Freshman year: BIOL 120/BIOL 121, BIOL 131; CHEM 120/CHEM 121, CHEM 222/CHEM 223; ENG 100; MATH 136; electives.

Sophomore year: BIOL 207/BIOL 208 or BIOL 226/BIOL 227 and BIOL 231; CHEM 340/CHEM 341, CHEM 342/CHEM 343; ECON 202 or ECON 203; ENG 300; MATH 183 or BIOL 382; electives.

Electives should include one course in psychology or sociology. COMM 145, HIST 101 or HIST 102 is also recommended. Note: Many pharmacy schools require a single semester of Physics that can be met by taking PHYS 231/PHYS 232 or PHYS 255.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Physical Therapy Advisement

Advisors: Steve Huskey, Gary English, Mark Schafer, Wendi Hulsey, Lynnita Glass

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: (270) 745-8894 or 745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

The pre-physical therapy program at Western Kentucky University is designed to prepare students for application to accredited programs in physical therapy. It is recommended that the student complete a baccalaureate degree while completing the pre-requisite requirements of the physical therapy schools to which they plan to apply. It should be noted that all physical therapy schools have adopted a Doctorate/Ph.D. level program, and as a result, a baccalaureate degree is required. Completion of the following prerequisites does not guarantee admission into a physical therapy school; it merely places the candidate into a competitive pool of applicants from which the successful candidates will be selected and interviewed.

Application to the physical therapy schools at WKU, the University of Kentucky and Bellarmine University requires applicants to have earned a bachelor's degree by the time they enter the program. A grade of "C" or better is required in all prerequisite courses. Applicants must also show evidence of having completed at least 50 hours of physical therapy observation and/or volunteer experience at two or more health care facilities. The following suggestions and requirements must be completed by the time the successful applicant enters the professional program:

I. WKU Colonnade Suggestions

- 2 semesters of English composition: ENG 100 & ENG 300
- 1 semester of Literature: ENG 200
- 1 semester of Arts & Humanities
- 1 semester of Speech Communication (COMM 145)
- 2 semesters of Psychology: PSY 100/PSYS 100 & PSY 220/PSYS 220
- 1 semester of History (Western Civilization): HIST 101 or HIST 102
- Complete World Language Requirement

II. Math/Science Requirements

- BIOL 120/BIOL 121; BIOL 122/BIOL 123
- BIOL 131 and BIOL 231 [or BIOL 224/BIOL 225; BIOL 321 and BIOL 330 are strongly recommended for Biology majors]
- CHEM 120/CHEM 121; CHEM 222/CHEM 223
- PHYS 231/PHYS 232; PHYS 332/PHYS 233
- MATH 116 and MATH 117; (MATH 136 is recommended for the University of Kentucky)
- One semester of statistics or research methods: BIOL 382 [or PH 383 or MATH 183]

If not completed in Colonnade, Six (6) hours of social/behavioral sciences (psychology, sociology, anthropology, philosophy, ethics, etc.) are also required.

III. Additional Suggestion

- Medical Terminology: AH 290 (required by UK)
- 1 semester of ethics: PHIL 320 or PHIL 322

The GRE is also required and should be completed approximately a year in advance of intended matriculation to PT school. It is also strongly recommended that professional certification in first aid by the American Red Cross and in CPR by the American Heart Association be completed prior to entrance into the program. The community CPR course offered by the American Red Cross is NOT acceptable. Minimum overall GPA should be 2.75; minimum science core GPA should be 3.0 (4.0 scale). However, the competitive nature of the application process over the last several years indicates that overall and science GPA's should both be 3.4 or higher to seriously contend for entrance.

WKU graduated their inaugural DPT class in Spring 2016; for more information go to www.wku.edu/physicaltherapy.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Physician Assistant Advisement

Advisors: Ken Crawford, Lynnita Glass

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: (270) 745-8894 or 745-4449
Email:hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

A Physician Assistant (PA) is a healthcare provider that has earned a Master's Degree from an accredited PA school (typically earned in 27 months) and passes a national licensure exam (PANCE). They must practice under the supervision of a licensed physician. It is a relatively new health profession, which has grown tremendously over the last 20 years. There are currently 209 accredited PA Programs in the US (but only 3 in KY, University of Kentucky, Univ. of the Cumberlands and Sullivan Univ.). The US Bureau of Labor lists PA as the 2nd fastest growing occupation (expected to grow 30% from 2010 to 2020).

The successful candidate will have earned a bachelor's degree prior to matriculation, completed the pre-requisite coursework, take the Graduate Record Exam (GRE) as well as complete extensive shadowing and healthcare work experience (1000 hours, 500 at time of application). Due to the extensive health care experience required, students are encouraged to begin no later than the beginning of the junior year. The following pre-requisites are based on those at UK. The student should carefully examine the requirements at other schools to which they plan to apply.

- ENG 100 and ENG 300
- BIOL 120/BIOL 121; BIOL 122/BIOL 123; BIOL 224/BIOL 225; BIOL 226/BIOL 227 or BIOL 207/BIOL 208; BIOL 321 and BIOL 330 or BIOL 131 and BIOL 231
- CHEM 120/CHEM 121; CHEM 222/CHEM 223 and CHEM 314 or CHEM 340/CHEM 341
- MATH 116, MATH 117
- PSYS 100/PSY 100 and PSYS 220/PSY 220; SOCL 100
- BIOL 382 or MATH 183
- AH 290

Pre-Podiatric Medicine Advisement

Advisors: Ken Crawford, Lynnita Glass

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: (270) 745-8894 or 745-4449
Email: hpa@wku.edu
Website: **http://www.wku.edu/wkuhpa**

Students planning a career in podiatry should follow the pre-podiatric curriculum at Western Kentucky University that is basically the same as that outlined for pre-medicine students. All applicants to podiatry school must take the Medical College Admission Test.

Three years of undergraduate academic study are required; however, 97% of matriculants complete the B.S. degree and therefore it is recommended that students planning a career in podiatry complete the entire four-year curriculum and receive the Bachelor of Science degree before entering a college of podiatric medicine.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Pre-Veterinary Medicine Advisement

Advisors: Fred DeGraves, Mike Stokes, Steve Huskey, Lynnita Glass

Contact: Dr. Ken Crawford
Ogden College Hall, Office 1017
Phone: (270) 745-8894 or 745-4449
Email: hpa@wku.edu
Website: http://www.wku.edu/wkuhpa

Kentucky students have the opportunity to attend veterinary medical school at reduced tuition at Auburn University, Auburn, AL or Tuskegee Institute, Tuskegee, AL. The Commonwealth of Kentucky has made this possible through its participation with the Southern Regional Education Board (SREB). The State of Kentucky pays approximately $25,000 annually for each student at Auburn or Tuskegee. Each year the School of Veterinary Medicine at Auburn reserves 34-40 positions for students from Kentucky who meet admission requirements. If admitted, Kentucky students pay the same fees as Alabama residents. Two to six positions may also be available each year at Tuskegee Institute on the same basis.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn University, is the satisfactory completion of an approved curriculum at an accredited college or university. A minimum grade point average of 2.50 is required overall and for the required courses.

Students may apply to one or both institutions as they near completion of the pre-veterinary requirements. The GRE is required for both Auburn University and Tuskegee.

The following courses have been approved by Auburn University: ENG 100, ENG 200, and ENG 300; MATH 116 and MATH 117 or higher level; HIST 101 or HIST 102; CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 340/CHEM 341, and CHEM 342/CHEM 343; PHYS 231/PHYS 232, and PHYS 332/PHYS 233; BIOL 120/BIOL 121, and BIOL122/BIOL 123; ANSC 140/ANSC 141 and ANSC 345; BIOL 319/BIOL 322; BIOL 446/CHEM 446; ART 100 or MUS 120, or THEA 151; COMM 145; 6 hours of 300-400 level science electives; and 6 hours social science elective. This curriculum is planned for completion in three years. By choosing the correct electives in the pre-veterinary program and transferring credits for the first year of veterinary school to Western Kentucky University, students may receive the Bachelor of Science degree from WKU. This is a suggested curriculum; the sequence of courses may be varied to suit individual situations. Every effort is made to advise each student based upon the individual's background and academic capability.

Please note: Recommended courses are based on WKU's assessment of specific professional school requirements. Students should, in consultation with their advisor, review the requirements at the professional school of their choice.

Biochemistry

Advisors:

Dr. Sigrid Jacobshagen,
Department of Biology
Thompson Complex, Central Wing, Office 353
Phone: 270-745-5994

Dr. Kevin Williams,
Department of Chemistry
Thompson Complex, Central Wing, Office 423
Phone: 270-745-8899

Faculty
Department of Chemistry: M. Kim, K. Williams, B. Williams
Department of Biology: C. Emani, S. Jacobshagen, N. Rice, C. Rinehart

Biochemistry is the study of the chemical basis of living organisms. The subject includes the investigation of the various classes of biomolecules (proteins, nucleic acids, lipids, and carbohydrates) and their metabolic interactions.

Training in biochemistry offers many exciting opportunities in teaching, research and public service. It provides excellent preparation for students intending to enter professional programs such as Dentistry and Medicine as well as graduate study in Biochemistry, Chemistry or Biology. The Biochemistry program is the only stand-alone Bachelor's Degree in Biochemistry at a public institution in the Commonwealth. It is administered jointly through the Departments of Biology and Chemistry. Students may enroll for biochemistry courses through either the Department of Biology or the Department of Chemistry, depending upon their major emphasis.

Biochemistry I (BIOL 446/CHEM 446) is strongly recommended for pre-medicine and pre-dentistry students as well as for chemistry and biology majors.

Major in Biochemistry

Reference Number: 519
Minimum Hours for Major: 60
Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/biochemistry_519.pdf

The major in biochemistry requires a minimum of 60 semester hours and leads to a Bachelor of Science degree. This sequence of required chemistry and biology courses along with elective courses from biology, chemistry, agriculture, and physics offer the student a unique opportunity for interdisciplinary training.

Required courses are CHEM 120, CHEM 121, CHEM 222, CHEM 223, CHEM 330, CHEM 340, CHEM 341, CHEM 342, CHEM 343; BIOL 120, BIOL 121, BIOL 122, BIOL 123, BIOL 319, BIOL 322, BIOL 411; BIOL 446/CHEM 446, BIOL 447/CHEM 447, BIOL 467/CHEM 467.

In addition to the required courses, students are expected to complete elective courses to total a minimum of 60 semester hours.

Electives: BIOL 212, BIOL 222, BIOL 223, BIOL 224, BIOL 225, BIOL 226, BIOL 227, BIOL 312, BIOL 316, BIOL 327, BIOL 337, BIOL 328, BIOL 330, BIOL 331, BIOL 335, BIOL 350, BIOL 382, BIOL 399, BIOL 400, BIOL 403, BIOL 404, BIOL 407, BIOL 412, BIOL 420, BIOL 440, BIOL 450, BIOL 464, BIOL 475, BIOL 495, BIOL 496

Electives: CHEM 320, CHEM 399, CHEM 420, CHEM 430, CHEM 435, CHEM 412 or (CHEM 450, CHEM 451 CHEM 452, CHEM 453), CHEM 462, CHEM 475.

Electives: AGRO 320, ANSC 344, ANSC 345, AGRO 350, AGRO 351, AGRO 352, AGRI 399, AGRO 409, AGRO 410, ANSC 437, ANSC 438, ANSC 448, AGRO 452, AGRO 455, AGRO 456.

Electives: PHYS 335, PHYS 431

In addition to the above 60 semester hours, the student is required to take (PHYS 231, PHYS 232, PHYS 233, PHYS 332) or (PHYS 255, PHYS 256, PHYS 265, PHYS 266) and MATH 136.

Minor in Biochemistry

Reference Number: 324
Minimum Hours for Minor: 18

The minor in biochemistry requires a minimum of 18 semester hours and a major in either chemistry or biology. Required courses are BIOL 411; BIOL 446/CHEM 446, BIOL 447 / CHEM 447, BIOL 467/CHEM 467. Electives: BIOL 120, BIOL 121, BIOL 226, BIOL 227, BIOL 319, BIOL 322, BIOL 327, BIOL 330, BIOL 331, BIOL 400; CHEM 120, CHEM 314 or (CHEM 340, CHEM 341, CHEM 342, CHEM 343), CHEM 420, CHEM 435, CHEM 462; ANSC 437, ANSC 438, ANSC 448. Any course used in the student's major cannot be counted toward the biochemistry minor.

Biophysics

Advisor: Dr. Wieb van der Meer

Thompson Complex, Center Wing, Office 227
Phone: 270-745-6205

Faculty
Department of Physics and Astronomy:
V. Dobrokhotov, I. Novikov, W. Van der Meer
Department of Biology: K. Crawford, S. Jacobshagen
Department of Chemistry: K. Williams

Biophysics studies the physics of life processes and explores the application of physics to biology and medicine. It combines a working knowledge of physics theory with an appreciation of the complexities of biological processes. Although only recently established as a separate discipline, it has rapidly taken position alongside those fields that are advancing the frontiers of scientific knowledge.

The minor in biophysics serves students of the life sciences: agriculture, biology, environmental engineering, environmental health, medical technology, pre-dentistry, pre-medicine, pre-optometry, pre-pharmacy, pre-veterinary medicine and psychological science.

Goals of the Biophysics minor: The purpose of the biophysics minor is to prepare students to meet the career goals listed below. It is expected that a student completing this minor will be proficient in the use of biological and medical instrumentation and will understand the underlying physical theory that make it work. In addition, the student will be exposed to two fundamental ways of looking at biology; first, from the point of view of the biologist who understands the complexity of life processes and second, from the point of view of the physicist who appreciates the basic simplicity of all the laws of nature.

Career Opportunities: The applicability of biophysics is so widespread that we can only outline some of the career opportunities. Medical doctors, dentists, pharmacists, optometrists, veterinarians, many researchers in the life sciences, physical therapists and nurses require an understanding of the principles and techniques involved in the use of modern instruments. Radiation treatment, medical imaging, genetic engineering, nanodevices, laminar flow rooms, cryosurgery and artificial organs have all been made possible due to rapid advances in biophysics.

Biophysics provides a helpful background for students interested in professional training in health related fields. It is also a valuable area for students interested in teaching biology or health at any level. Industrial, government or university laboratory work requires a thorough knowledge of both the theory and application of modern instrumentation. The federal government is currently funding training programs that combine biology and physics. Job opportunities are available for students with such a background and these openings are expected to increase over the next few decades.

Minor in Biophysics

Reference Number: 329
Minimum Hours for Minor: 18

Students will be admitted into the program by the biophysics advisor. Individual counseling will guide the students to a proper choice of courses consistent with previous experience. Introductory Biophysics (PHYS 231, 332) requires high school level algebra, geometry, and trigonometry. The more advanced courses will require knowledge of PHYS 231 and PHYS 332. Additional mathematical training is encouraged.

The biophysics minor consists of a minimum of 18 credit hours. Required courses are (credit hours listed between parentheses) PHYS 231/PHYS 232 Introduction to Physics and Biophysics I with laboratory, (4 hours); PHYS 332/PHYS 233 Introduction to Physics and Biophysics II with laboratory, (4 hours); PHYS 335 General Biophysics (4), or PHYS 337 Medical Imaging (4), PHYS 359 Clinical Optics (4), or PHYS 379 Nanotechnology in Biophysics and Medicine (4), or PHYS 431 Radiation Biophysics (4). Optional upper division electives (minimum of 6 hours required) include but are not limited to the following: BIOL 399 or PHYS 399 Research Problems, 1-3 hours; BIOL 330 Animal Physiology, 3 hours; BIOL 331 Animal Physiology Laboratory, 1.5 hours; BIOL 404 Electron Microscopy, 4 hours; BIOL 411 Cell Biology, 3 hours.

Major in Medical Laboratory Science

Coordinator: Dr. Kerrie McDaniel
Thompson Complex, Center Wing, Office 313
Phone: 270-745-6845
Email: Kerrie.McDaniel@wku.edu

Reference Number: 5004
Minimum Hours for Major: 83

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/ocse/medical_lab_science_5004.pdf

With the aging of our population, it is estimated that health care will be a major service industry in our country. An important part of health care is Medical Laboratory Science, formally known as Medical Technology, a profession that includes well-trained, highly educated individuals who are the fact-finders of the medical world. Medical Laboratory Scientists typically analyze body fluids, examine tissues, and identify specific microorganisms to find evidence for and the cause of specific diseases such as AIDS, Diabetes, and Cancer. Some of the exciting new demands of the profession include tissue typing for organ transplantation, chromosomal studies as a basis for genetic counseling, identification of environmental pollutants, and screening tests for accidental poisoning and drug abuse. The demand for Medical Technologists is very high. The U.S. Bureau of Labor Statistics continues to project a need for new Medical Laboratory Scientists to meet medical demands of an aging population.

Although two-thirds of Medical Laboratory Scientists work in hospital laboratories, new sources of employment include laboratories in physician's offices, research facilities in universities and industries, public health centers and in veterinary clinics.

The Medical Laboratory Science program combines a minimum of three years (96 semester hours) of college courses at Western Kentucky University with a minimum of 12 calendar months (36 semester hours) of satisfactory clinical training in a school of Medical Laboratory Science (Medical Technology). This school must be approved by the Committee on Allied Health Education and Accreditation of the American Medical Association and by the medical technology coordinator at Western Kentucky University.

Coursework for this major requires a minimum of 83 hours (36 of which are completed at a Medical Laboratory Science school and transferred back to the Department of Biology) and leads to a B.S. degree in Medical Laboratory Science. No minor is required. A student must meet all of the Colonnade Requirements for the bachelor's degree at Western Kentucky University before admission to the school of medical technology.

Upon satisfactory completion of the course requirements in medical laboratory science, the Bachelor of Science degree will be awarded by Western Kentucky University. Graduates of the medical laboratory science program are eligible to take national credentialing examinations for medical technologists which result in membership in the American Society of Clinical Pathologists (A.S.C.P.).The program is affiliated with the following schools of medical technology: Bellarmine University, Louisville, KY; Owensboro Medical Health System, Owensboro, KY; Vanderbilt Medical Center, Nashville, TN; and St. Elizabeth Medical Center, Covington, KY.

Course requirements at Western Kentucky University include BIOL 120/BIOL 121, BIOL 122/BIOL 123, BIOL 224/BIOL 225, BIOL 226/BIOL 227, BIOL 319/BIOL 322 or BIOL 327/BIOL 337, BIOL 328; CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 314 or CHEM 340/CHEM 341, BIOL 446/CHEM 446, and MATH 118 or MATH 116 and MATH 117.

More detailed information including Colonnade (general education) requirements can be obtained from the coordinator. Students must consult the coordinator regarding applying for admission to the medical technology schools. Application is made 9 to 12 months in advance of the beginning date for the medical technology school. Admission to these schools is on a competitive basis, and maintenance of a good academic standing is required. Students are required to have liability insurance for their clinical years.

Minor in Aerospace Studies (AFROTC)

Advisor: Dr. Ken Crawford
Email: Kenneth.Crawford@wku.edu

Reference Number: 304
Minimum Hours for Minor: 20-23

The Air Force Reserve Officers Training Corps (AFROTC) provides pre-commission training for college men and women who desire to serve as commissioned officers in the United States Air Force. When combined with the academic disciplines offered at the college level, the program provides the student a broad-based knowledge of management, leadership, and technical skills required for a commission and subsequent active duty service in the Air Force. A minor in aerospace studies (reference number 304) is available to students. Students must take AERO 151, AERO 153, AERO 251, AERO 253, AERO 351, AERO 353, AERO 451, and AERO 453.

Graduates are commissioned as Second Lieutenants and are called to active duty within 60 days. Educational delays may be granted for non-flying graduates who desire to pursue advanced degrees prior to entry on active duty. The main objectives of producing officers through the AFROTC program are:

1. To procure officers with a broad educational base.
2. To provide a basic military education for college students.
3. To teach fundamentals and techniques of leadership, management and decision-making.
4. To develop, in conjunction with other academic disciplines, individual character and attributes required of a commissioned officer in the United States Air Force.

Air Force ROTC Program:
In cooperation with Tennessee State University, located in Nashville, TN, an opportunity is available for Western Kentucky University (WKU) students to participate in the Air Force ROTC Program. Simply call the detachment (**615.963.5979**) and ask for a Cross-Town Application. The program provides training and education that will develop skills and attitudes vital to the professional Air Force Officer. In this program students are eligible to compete for scholarships (2.5+ GPA) and receive the same benefits and privileges as full-time students enrolled at TSU. In addition to the above, Western Kentucky University grants two room and board scholarships each year to winners of four-year or three and one-half year AFROTC scholarships.

Students who participate in the Air Force ROTC program must be enrolled as a student at WKU (or other cross-town college). The student is also jointly enrolled as a TSU student and participates in Aerospace Studies at TSU. For more information, contact the Unit Admissions Officer at (615) 963-5931/5979 or check the website at http://www.tnstate.edu/afrotc/.

Curriculum - The General Military Course (GMC) is 1 credit hour and is composed of the first four semesters of aerospace studies (AERO) and is for freshmen and sophomores. The Professional Officer Course (POC) is 3 credit hours and constitutes the final four semesters of AFROTC study and enrolls juniors and seniors.

Civil Air Patrol Squadron - A centralized flying program for AFROTC cadets conducted at any time while they are enrolled in AFROTC. Training consists of eight hours of flying instruction in a light, single-engine aircraft. Objectives of the program are to train and motivate qualified cadets toward a rated (flying) career, and to introduce the cadets to the aviation career field. The Leadership Lab is also 1 credit hour.

Aerospace Studies Courses

- **Freshman Year:** AERO 151/AERO 153 – The Foundations of the United States Air Force is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.
- **Sophomore Year:** AERO 251/AERO 253 – The Evolution of USAF Air and Space Power features topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate.
- **Junior Year:** AERO 351/AERO 353 - The United States Air Force Leadership Studies teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.
- **Senior Year:** AERO 451/AERO 453 - National Security Affairs/Preparation for Active Duty is designed for college seniors and gives them the foundation to understand their roles as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

POC Eligibility:
The following are prerequisites for entry into the AFROTC Professional Officers Course (POC). The student must:

1. Have either completed the General Military Course (GMC) or the six-week Field Training Course. The GMC may be accredited for certain prior military service applicants who meet specific criteria.
2. Have two academic years of college remaining (either undergraduate, working on second degree, or graduate degree) as a full-time student.
3. Have achieved a qualifying score on the AFOQT.
4. Execute a written agreement to complete the program and successfully complete the applicable Field Training Course and accept an Air Force Reserve Commission, when tendered.
5. Be selected by the Professor of Aerospace Studies (PAS).
6. Meet certain specified age requirements.

General Benefits: All students enrolled in the AFROTC programs are provided textbooks and uniforms at no expense. POC students (juniors and seniors) and all scholarship students receive a monthly subsistence allowance of up to $500 tax-free.

Sponsored Activities:
Arnold Air Society - A national society of AFROTC cadets who excel in character, academics, and exhibit interests in the study of aerospace technology meets at TSU.

Professional Development Training is provided during the summers to cadets interested in enhancing their knowledge of Air Force leadership and management opportunities, increasing their cultural awareness, and learning about specific career specialties.

AFROTC Flight Orientation Program is designed to allow all cadets, regardless of intended career field, the chance to fly in Civil Air Patrol aircraft. Everyone can experience the joy of flight.

Brewing and Distilling Arts & Sciences Certificate

Advisor: Dr. Cathleen Webb
Email: Cathleen.Webb@wku.edu
College High Hall, Office 2109
Phone: (270) 745-6181

Reference Number: 1733
Minimum Hours for Certificate: 12-15

Humans have been brewing alcohol since the dawn of recorded history, and distilling stretches back over a thousand years. Brewing and distilling play a major role in the Kentucky and U.S. economy. Industries as diverse as farming, tourism, construction, and retail all rely on, and contribute to alcohol production.

This multidisciplinary certificate is designed to complement an existing major in a related field, by providing a background understanding of topics related to the brewing and distilling industries−students need to become competitive in the marketplace.

Students will take the following four courses for the certificate: BDAS 300, ENT 312, HIST 341, and BDAS 495.

College of Health and Human Services

Academic Complex, Office 208
Phone: 270-745-2425; Fax: 270-745-7073
Email: chhs@wku.edu
Website: www.wku.edu/chhs
Suggested Degree Paths:
http://www.wku.edu/degreepaths/18-19/chhs.php

Dr. Dennis George, Interim Dean
Email: Dennis.George@wku.edu

Dr. Danita S. Kelley, Associate Dean
Email: Danita.Kelley@wku.edu

Dr. Vijay Golla, Associate Dean of Research and Administration
Email: Vijay.Golla@wku.edu

Departments/Schools

- Allied Health
- Applied Human Sciences
- Communication Sciences and Disorders
- Kinesiology, Recreation, and Sport
- Nursing
- Physical Therapy
- Public Health
- Social Work

Vision
To be the college of choice that equips students, staff, and faculty to be innovative and transformative through exemplary programs and opportunities in health and human services.

Mission
To inspire the discovery and application of knowledge in health and human services.

Established by the Board of Regents in August 2002, the College of Health and Human Services (CHHS) brings together the health and human services programs under one administration unit. One of our strengths is the breadth and depth of the diverse disciplines within the College. The College consists of eight academic units that represent an array of disciplines, and offers degrees at the associate, baccalaureate, masters, and doctoral degree levels. Academic units include Allied Health; Applied Human Sciences; Communication Sciences and Disorders; Nursing; Kinesiology, Recreation, and Sport; Physical Therapy; Public Health; and Social Work. The College oversees the South Central Kentucky Area Health Education Center, the Center for Environmental and Workplace Health, the Center for Applied Science in Health and Aging, and the WKU Cardiopulmonary Resuscitation Center. The College is also one of the participating institutions for the doctoral program in Rehabilitation Sciences offered through the University of Kentucky.

The focus of the CHHS is to provide the highest possible quality of education to prepare our students to become leaders in careers related to health and human services. First year students have the opportunity to enroll directly in a specific major or pre-major program or to enroll in our “exploratory” program and investigate the many career options available to them in health and human services. Faculty are highly qualified in their respective disciplines and utilize innovative teaching strategies along with state of the art instructional technology, including IVS, web-enhanced and web-based instruction.

The disciplines in the college have their roots in outreach to the community. Disciplines in CHHS prepare students for their professions by engaging them in activities within the community that apply the theories and concepts discussed in the classroom for a more comprehensive understanding of the issues, while providing a valuable service to the communities in which we reside. To fulfill degree requirements for most programs, students are required to complete clinical experiences, field work, or internships through one of the many affiliation agreements at a myriad of health and human services facilities, agencies and organizations. Two nationally recognized mobile health and wellness units provide opportunities for students to apply skills learned in the classroom in the provision of prevention services to residents in our region.

Due to the nature of these experiences, students are required to meet various departmental or school academic requirements and federal and/or state mandates. Departments and schools may require the successful completion of specific courses or maintaining a certain GPA in order to be placed in clinical or internship experiences. Some students may be required to undergo criminal background checks and drug testing and to provide proof of health insurance, liability insurance, and/or immunization records prior to participating in any required experiences at selected on or off-campus facilities/agencies.

Additionally, there may be certifications, training seminars, or other requirements specified by the facility/agency or program that a student must meet in order to be eligible for field or practical experiences at a facility. It is the responsibility of the student to ensure that all institutional and/or facility requirements are met as a condition of participating in the on or off-campus experiences; students may be responsible in part or in full for any costs incurred to meet such requirements. Students are also responsible for transportation to and from off-campus experiences. In some CHHS programs, the students are responsible for rental fees for clinical instruments and supplies, purchasing uniforms, equipment, and possible course and program fees above the regular tuition. At the completion of the program, students may also be responsible for fees related to national, regional, and/or state licensing exams.

The CHHS is dedicated to improving the quality of life in the community through education, service, collaboration, leadership, and scholarship. This is accomplished in the various centers and programs in the college that provide for a vibrant and relevant university experience. The following is a brief description of these organizational units.

South Central Kentucky Area Health Education Center (AHEC)

Lucy Juett, Director
Email: Lucy.Juett@wku.edu
Phone: (270) 745-3325
Website: www.wku.edu/scahec

Connecting Students to Careers – Professionals to Communities – Communities to Better Health

The mission of the Kentucky AHEC is to promote healthy communities through innovative educational partnerships. This is accomplished by providing the following:

- educational support services to health professions students and health care providers;
- community health education; and
- programs that encourage health professions as a career choice.

The South Central AHEC is affiliated with the University Of Louisville School Of Medicine in cooperation with WKU's College of Health and Human Services. AHEC programs of particular interest to WKU students include the following:

- Opportunities to enhance cross-cultural communication skills with two unique populations - an Old Order Mennonite community and the ESL population in Bowling Green.
- Inter-professional Test Prep – is a 12-week preparation program for students planning to take the Medical College Admission Test (MCAT), Dental Admission Test (DAT), Optometry Admission Test (OAT) or the Pharmacy College Admission Test (PCAT). This program is offered every spring for WKU students.
- Mock Interviews and personal statement reviews are offered to any student applying for admission to a professional school in which an interview is required, such as, schools of medicine, dentistry, physical therapy, pharmacy, etc.
- Student internships are available through the South Central AHEC.
- Bridging the Gap Medical Interpreter Training Program is a 40 hour curriculum offered several times a year and prepares students to provide medical interpreting services.
- WKU-AHEC Student Rural Health Association (SRHA) - This student organization provides students with an opportunity to develop leadership skills, team building skills, research interests, and inter-professional student projects. Since rural health encompasses many areas, this student organization is open to all students, both clinical and non-clinical, who have an interest in rural health.
- State Registered Nurse Aide (SRNA) classes are offered a couple of times a year during the WKU winter term and first summer session. This class prepares students to take the written and skills test to become a SRNA which can lead to employment in long term care facilities and acute care hospitals.

CHHS Center for Environmental and Workplace Health (CEWH)

Dr. Ritchie Taylor, Director
Email: Ritchie.Taylor@wku.edu
Phone: (270) 745-8975
Website: www.wku.edu/cewh

The mission of CEWH is to address environmental, occupational, and workplace health and safety issues through innovative education, research, partnerships, and service.

Objectives of the Center:

- Promote research, creativity and scholarly activity by faculty and students.
- Prepare students for lifelong learning and success.
- Enhance the diversity and international profile of faculty, staff and student populations.
- Expand WKU's economic impact on the region through student, faculty, and staff engagement.

The CEWH serves to address environmental, occupational, and workplace safety and health research in the region. This Center engages faculty, staff, and students through innovative research that enhances education, partnerships, and service offered by the College of Health and Human Services. The Center brings together disciplines throughout the College and WKU to improve the health of the community and workers by understanding the risks and conditions associated with environmental and occupational diseases and injuries, to explore methods for reducing risks and for preventing or minimizing exposure to hazardous conditions in the environment and workplace, and to translate significant scientific findings into prevention practices, products, and innovations that will effectively reduce environmental and work-related hazards, illnesses, and injuries.

CHHS Center for Applied Science in Health and Aging (CASHA)

Dr. Jason Crandall, Director
Email: Jason.Crandall@wku.edu
Phone: (270) 745-2077

The CASHA was created in CHHS to engage in rigorous research to promote health, vitality, and human potential in the aging community through innovative education, research, partnerships, and service. CASHA will collaborate with community organizations and university partners to identify and address needs in the aging community. Findings will inform research, policy, practice, and program development. CASHA will integrate disciplinary perspectives in physical activity, health, human development, and cognitive psychology to optimize human potential. In addition, the Center seeks to develop the knowledge, skills, and dispositions of emerging scholars and practitioners by providing experiential and developmental learning opportunities for undergraduate and graduate students.

WKU Cardiopulmonary Resuscitation (CPR) Training Center

Angie Drexler, Coordinator
Email: Angie.Drexler@wku.edu
Phone: (270) 745-3762
Website: www.wku.edu/chhs/cpr.php

The mission of the WKU CPR training center is dedicated to upholding the standard of the American Heart Association in accountability for instructors as well as excellent classroom training for the campus and the community. Classes are available to all faculty and staff, as well as anyone in the public. The types of classes available include Healthcare Provider, Heartsaver First Aid and CPR, Heartsaver Pediatric First Aid and CPR, and instructor courses for all disciplines.

Interdisciplinary Program

Interdisciplinary Patient Navigator Certificate

Contact: Dr. Danita Kelley
Email: Danita.Kelley@wku.edu
Academic Complex, Office 208
Phone: 270-745-7060

Reference Number: 1732
Minimum Hours for Certificate: 19-23

The Interdisciplinary Patient Navigator Certificate will prepare students in the health care professions to effectively assist diverse clients to locate appropriate healthcare services, participate in healthcare decision-making, and understand medical vernacular and processes in the healthcare system. This program prepares students in the health care professions by increasing understanding of both the complexity of the US healthcare system and the diverse barriers and strengths of rural healthcare clients. Legal and ethical issues in healthcare provision are examined. Students completing this certificate will be prepared to work with patients in healthcare or community settings at all stages of the healthcare process including preventative care, maintaining a healthy lifestyle; diagnosis, treatment, and disease management; and adjustment to chronic illness or sometimes end of life. One of the required courses HIM 100 has additional requirements of 1) Liability Insurance, 2) Immunizations, 3) Drug Screen, 4) Criminal Background Check, 5) Professional Organization Membership. Some of these requirements may be met in other professional programs, and your Certificate Advisor can assist you with determining if the requirements are met. These requirements will cost about $150 in most cases. The certificate requires 19-23 credit hours and requires the following core courses: CORE: HIM 100, AH 290, HIM 291, HIM 292, HCA 340, and 1 course from EACH of the following 3 categories: (1) Legal Issues: HIM 225, SWRK 375, SWRK 433, PH 447, or advisor approved selection; (2) Collaboration: SWRK 357, NURS 400, COMM 440, or advisor approved selection; (3) Cultural Competency: CD 200, NURS 321, SWRK 330, HCA 347, or advisor approved selection. Courses that apply to the certificate must be completed with a grade of “C” or better.

Department of Allied Health

Dr. Terry Dean, Head

Academic Complex, Office 236G
Phone: (270) 745-2427
Website: www.wku.edu/alliedhealth/index.php

Associate Professors: B. Bush, T. Dean, J. Evans
Instructor I: W. Hulsey, D. Ransdell
Transitional Retirees: L. Austin, R. Tabor
Professional Staff: D. Carter, M. Hunt, B. Petty, R. Watkins

Program Accreditation: Commission on Dental Accreditation (Program of Dental Hygiene).

Allied health is defined as all the professional, technical and supportive workers in patient care, public health and health research. Allied health professions encompass a wide distribution of personnel with various levels of health education and training, which enables them to function as a member of the health care team.

The Department of Allied Health offers an Associate of Science degree in Dental Hygiene and a Bachelor of Science degree in Dental Hygiene. The Department of Allied Health also houses the WKU College of Health and Human Services' Institute for Rural Health.

Programs of Dental Hygiene
Students with an interest in the program of dental hygiene may contact the Department of Allied Health. When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Program Requirements and (c) Academic Requirements and Regulations. Students should be aware that this academic program might require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department.

Enrollment in the program of dental hygiene is limited and special admission information and other special rules, standards and requirements should be obtained directly from the department office (Academic Complex, Room 236G) or from the departmental website (http://www.wku.edu/alliedhealth/index.php).

The baccalaureate degree curriculum is designed to prepare dental hygienists with a background for teaching, for organization and management, for research, as well as for clinical dental hygiene.

The dental hygiene associate degree curriculum is designed primarily to prepare the graduate hygienist to effectively practice as a respected member of the dental hygiene profession. The education also provides the student with knowledge, skills and attitudes that will enable him or her to serve as a community resource in matters of dental disease prevention and sound dental health practices.

The educational experience offered prepares the graduate hygienist to effectively carry out the duties as prescribed by licensure. Hygienists are prepared for varied career opportunities, which include the following settings: general dentistry practice, specialty practices, public health, military installations, hospitals or clinics, research facilities or public school dental hygiene.

Although 14 hours of Colonnade courses (including Anatomy & Physiology and Microbiology) are prerequisites, most beginning dental hygiene students will have successfully completed one or more years of college.

Transfer students with an associate degree from a dental hygiene program accredited through the American Dental Association's Commission on Dental Accreditation receive a 12-hour waiver in the overall upper-division hour requirement and a 16-hour waiver in the major upper-division hour requirement.

Major in Dental Hygiene

Reference Number: 524P (seeking admission)
524 (officially admitted)

Minimum Hours for Degree:120-126
Degree: Bachelor of Science

Minimum Hours for Major: 66-78

Sample Degree Path:
Education Track: http://wku.edu/degreepaths/18-19/documents/chhs/dental_hygiene_education_524.pdf

Without Education Track: http://wku.edu/degreepaths/18-19/documents/chhs/dental_hygiene_noneducation_524.pdf

A degree in dental hygiene *with education track* requires 126 semester hours, including 78 hours in the major, and leads to a Bachelor of Science degree. The curriculum may be completed in eight semesters and one summer term within four years. For admission to the program, students must complete the prerequisites of BIOL 131, BIOL 207/BIOL 208, ENG 100, and PSY 100/PSYS 100.

Additional required courses are COMM 145, HMD 211, SOCL 100, and CHEM 109. All students must take the following courses: DH 201, DH 204, DH 206, DH 210, DH 212, DH 222, DH 226, DH 230, DH 270, DH 271, DH 302, DH 303, DH 304, DH 307, DH 309, DH 323, DH 324, DH 370, and DH 371. Students in the education track must take the following 18 hours: FACS 381, DH 330, DH 340, DH 350, and PH 383.

A degree in dental hygiene *without education track* requires 120 semester hours, including 66-67 hours in the major, and leads to a Bachelor of Science degree. The curriculum may be completed in eight semesters and one summer term within four years. For admission to the program, students must complete the prerequisites of BIOL 131, BIOL 207/BIOL 208, ENG 100, and PSY 100 / PSYS 100. Additional required courses are COMM 145, HMD 211, SOCL 100, and CHEM 109. To complete the non-education track, student must take 6-7 hours from: CHEM 304, COMM 330, COMM 345, COMM 346, COMM 348, COMM 349, COMM 362, COMM 374, COMM 440, HCA 340, HCA 347, PH 381, PH 383, PH 384, PH 462, PH 464, PH 484, PSY 310, PSY 350/PSYS 350, SOCL 342, SOCL 352, SOCL 375, or SOCL 450.

Associate Degree in Dental Hygiene (A.S.)

Reference Number: 226P (seeking admission)
226 (officially admitted)

Minimum Hours for Degree: 83
Degree: Associate of Science

The associate degree may be completed in five semesters and one summer term. Requirements are outlined below:

For admission to the program, students must complete the prerequisites of BIOL 131, BIOL 207/BIOL 208, ENG 100, and PSY 100/PSYS 100. The following courses are required for the program: DH 201, DH 204, DH 206, DH 210, DH 212, DH 222, DH 226, DH 230, DH 270, DH 271, DH 302, DH 303, DH 307, DH 309, DH 324, DH 370, DH 371. Additional required courses are HMD 211, CHEM 109, COMM 145, and SOCL 100.

Institute for Rural Health (IRH)

Dr. Matthew L. Hunt, Director
Email: Matthew.Hunt@wku.edu
Phone: (270) 745-6948
Website: www.wku.edu/irh

The purpose of the WKU College of Health and Human Services' Institute for Rural Health is to identify rural health and human service needs and facilitate collaborative arrangements engaging WKU students and faculty with community agencies in addressing these needs. The Institute works closely with the departments and schools within the College of Health and Human Services. Resources include the WKU College of Health and Human Services Mobile Health and Wellness Unit and the Mobile Dental Health Unit. The Institute plays a major role in assisting the CHHS in maintaining the focus of student engagement and community service, while promoting collaborative research.

The mission of the IRH is to steward a high quality of life for rural populations and underserved areas: by engaging students and faculty in service learning and research; by providing clinical services; and by serving as a global resource for improving health in rural communities. Staff and students under supervision within the College of Health and Human Services provide the services which include oral exams, dental cleanings, dental sealants, fluoride varnishes, preventive health screenings, immunizations, and health education/promotion. The target area to provide these services is the ten-county Barren River District Development area.

Department of Applied Human Sciences

Mr. Travis Wilson, Head

Academic Complex, Cannon Wing, Office 302F
Phone: (270) 745-4352; Fax: (270) 745-3999
Email: lauri.warden@wku.edu
Website: www.wku.edu/ahs

Professors: S. Gaiko, D. Kelley
Associate Professors: D. Babb, D. Haynes-Lawrence, K. Mason, H. Payne-Emerson, D. Sikora, T. Wilson
Assistant Professors: C. Cox, A. Embry, Y. Fang, S. Kim, F. Soltani, Q. Song, A. West
Instructor II: S. Flener, J. Lee
Instructor I: C. Jones, D. Shivel, J. Simmons
Professors Emeriti: L. Fong, M. Jenkins

The Department of Applied Human Sciences offers Bachelor of Science degrees in Interior Design and Fashion Merchandising, Family and Consumer Sciences; and Hospitality Management and Dietetics and an Associate of Arts degree in Early Childhood Education. All AHS majors are required to take nine hours of core courses which include FACS 311 Family Relations plus six credit hours of core coursework selected from the pool of approved courses with major advisor approval.

The pool of approved courses include: HMD 211 Human Nutrition; IDFM 221 Visual Design II; FACS 310 Management of Family Resources; HMD 351 Human Resource Management; IDFM 421 Portfolio Design, and IDFM 431 Clothing and Human Behavior.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head or their advisor.

In several of the department's programs, students may be required to undergo criminal background checks and drug testing and to provide proof of health insurance, liability insurance, and/or immunization records prior to participating in any required experiences at selected off-campus facilities/agencies. Additionally, there may be certifications, training seminars, or other requirements specified by the facility/agency that a student must meet in order to be eligible for field or practical experiences at the facility. It is the responsibility of the student to ensure that all institutional and/or facility requirements are met as a condition of participating in the off-campus experiences; students may be responsible in part or in full for any costs incurred to meet such requirements. Students are also responsible for transportation to and from off-campus experiences. Additional policies, requirements, and costs for concentrations are specified at the departmental website, www.wku.edu/ahs.

Major in Family and Consumer Sciences

Program Coordinator: D. Sikora

Reference Number: 563
Minimum Hours for Major: 51-82

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Child Studies: http://wku.edu/degreepaths/18-19/documents/chhs/child_studies_563.pdf

Family and Consumer Sciences Education:
http://wku.edu/degreepaths/18-19/documents/chhs/family_consumer_science_ed_563.pdf

Family Studies: http://wku.edu/degreepaths/18-19/documents/chhs/family_studies_563.pdf

This program offers three concentrations which lead to a Bachelor of Science degree: (1) Child Studies, which provides a program of study for those who wish to work in a child-focused environment but do not want teacher certification; (2) Family and Consumer Sciences Education, which leads to teacher certification; and (3) Family Studies, which provides a program of study for those who wish to work in a family-focused environment.

The concentration in ***Child Studies*** requires a minimum of 51 hours in consumer and family sciences and related courses. A grade of "C" or above must be earned in the following courses required for this concentration: HMD 211, FACS 180, FACS 191, FACS 193, FACS 292, FACS 294, FACS 299, FACS 310, FACS 311, FACS 312, FACS 335 or FACS 336, FACS 399, FACS 493, FACS 494, FACS 499, FACS 393 and FACS 496.

The concentration in ***Family and Consumer Sciences Education*** requires a minimum of 57 hours in family and consumer sciences, and 25 hours in professional education for a total of 82 semester hours and leads to a Bachelor of Science degree. A grade of "C" or above must be earned in the following courses required for this major: HMD 151, HMD 251, FACS 191, FACS 281, FACS 282, FACS 310, FACS 311, FACS 312, FACS 381, FACS 422, FACS 481, FACS 493, FACS 494, AGED 300, IDFM 100, IDFM 131, IDFM 223, and a minimum of six hours of electives from the following list: HMD152 and HMD 251, HMD 171, FACS 393, FACS 495, IDFM 132, IDFM 431, PH 365, SEC 350, or elective approved by advisor. Professional education courses required are EDU 489, SPED 330, SEC 490, MGE 275, MGE 490, LTCY 421, and PSY 310. No minor is required. Students majoring in FACS education are required to meet with their advisor before enrolling for the upcoming semester. All requirements for admission to professional education must be met to fulfill the Kentucky standards for the designated teaching certificate. Current information on teacher education and certification are available on the website for the Office of Professional Educator Services: https://www.wku.edu/educatorservices/.

The concentration in ***Family Studies*** requires a minimum of 51 hours in consumer and family sciences and related courses. A grade of "C" or above must be earned in the following courses required for this major: HMD 211, FACS 180, FACS 191, FACS 310, FACS 311, FACS 312, FACS 380, FACS 399, FACS 410, FACS 422, FACS 493, FACS 494, FACS 495, FACS 497, FACS 499, PSYS 423 or SOCL 342, SOCL 359 or PH 365, and approved upper-level elective: FACS 395, PH 444, or elective approved by academic advisor.

Major in Hospitality Management and Dietetics

Program Coordinator: J. Simmons

Reference Number: 707P (seeking admission)
707 (officially admitted)
Minimum Hours for Major: 59-68

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Food, Nutrition, and Wellness: http://wku.edu/degreepaths/18-19/documents/chhs/food_nutrition_wellness_707.pdf

Hotel, Restaurant, and Tourism Management:
http://wku.edu/degreepaths/18-19/documents/chhs/hotel_restaurant_tourism_707.pdf

Nutrition and Dietetics: http://wku.edu/degreepaths/18-19/documents/chhs/nutrition_dietetics_707.pdf

The major in Hospitality Management and Dietetics program offers three distinct concentrations: (1) Hotel, Restaurant, and Tourism Management, (2) Nutrition and Dietetics and (3) Food, Nutrition, and Wellness. Common core courses for all concentrations include: HMD 151, HMD 152, HMD 211, HMD 251, HMD 252, HMD 351, HMD 353, HMD 354, HMD 452, HMD 459, and either IDFM 321 or FACS 312. A grade of "C" or above must be earned in all courses required for these majors. No minor or second major is required.

Hotel, Restaurant and Tourism Management Concentration
The Hotel, Restaurant, and Tourism Management concentration requires 59 semester hours. This concentration helps prepare students for careers in hotel and resort management, restaurant management, hospital and school food service, meeting and convention planning, sales and marketing, business and industry food service, catering, and tourism. In addition to the common core courses indicated for the major, this concentration requires HMD 171, HMD 271, HMD 275, HMD 276, HMD 373, HMD 378, HMD 410, HMD 470, HMD 471, HMD 472.

Nutrition and Dietetics Concentration
The Nutrition and Dietetics concentration requires 68 semester hours. This concentration meets requirements of the Academy of Nutrition and Dietetics' Accreditation Council for Education in Nutrition and Dietetics and fulfills one of the steps necessary to become a Registered Dietitian Nutritionist. A grade point average of 3.0 on at least 30 credit hours is required for admission to the nutrition and dietetics concentration; specific courses, including human nutrition (HMD 211) with a grade of B or better, chemistry (CHEM 105), biology (BIOL 131), and mathematics (MATH 183), require a minimum grade of "C" or higher and should be a part of these 30 credit hours. Students must have an ACT composite score of $\geq$ 20 or SAT (CR+M) of $\geq$ 950. Additional information on the admission process and becoming a Registered Dietitian Nutritionist is available on the program website (www.wku.edu/ahs/dietetics). This concentration helps prepare students for careers in medical nutrition therapy, sports nutrition and wellness, hospital and school food service, public health nutrition, extension services, research, pharmaceutical sales, and private practice. In addition to the common core courses indicated for the major, this concentration requires HMD 201, HMD 340, HMD 360, HMD 361, HMD 362, HMD 461, HMD 462, HMD 464, HMD 465, ACCT 200, AH 290, CHEM 304, and one elective chosen from the following list: BIOL 113, BIOL 120, BIOL 231, ECON 206, EXS 311, FLK 462, HCA 340, HCA 347, HIM 291, HIM 292, HMD 364, HMD 367, HMD 368, HMD 373, MKT 220, PE 311, PH 383, PH 390, PH 402, PHIL 322, PSY 220/PSYS 220, SOCL 342, SWRK 205, SWRK 326 or other advisor approved elective. Specific courses required for the concentration may count toward Colonnade Requirements are: ECON 150, PSY 100/PSYS 100, MATH 183, CHEM 105, CHEM 106, CHEM 107, CHEM 108, BIOL 131, BIOL 207 and BIOL 208.

Food, Nutrition and Wellness Concentration
The food, nutrition and wellness concentration requires 59 semester hours. This concentration does not meet accreditation requirements leading to status as a Registered Dietitian Nutritionist. This concentration helps prepare students for careers in extension services, community food programs, food service management, wellness programs, pharmaceutical sales, and quality control or public relations for the food industry. In addition to the common core courses indicated for the major, this concentration requires HMD 360, HMD 361, ACCT 200, HMD 461, HMD 465, MKT 220, PE 311, PH 390; and two designated electives selected with the advisor from the following list: COMM 240, COM 345, COMM 346, COMM 362, ENT 312, HMD 362, HMD 364, HMD 367, HMD 368, HMD 471, MGT 333, MGT 365, MKT 323, MKT 325, MKT 328, MKT 331, MKT 427, PSYS 370 or other advisor approved electives. Colonnade courses in support of this concentration include CHEM 109 and BIOL 131.

Major in Interior Design and Fashion Merchandising

Program Coordinator: S. Flener

Reference Number: 531
Minimum Hours for Major: 78-81

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Fashion Merchandising: http://wku.edu/degreepaths/18-19/documents/chhs/fashion_merchandising_531.pdf

Interior Design: http://wku.edu/degreepaths/18-19/documents/chhs/interior_design_531.pdf

The major in Interior Design and Fashion Merchandising (reference number 531) requires a minimum of 78-81 semester hours and leads to a Bachelor of Science degree. The program offers two distinct concentrations: Fashion Merchandising (78 hours) and Interior Design (81 hours). Course work in the major is sequential and most classes are taught once a year. Students seeking the Interior Design major need to plan for four years (8 semesters) to complete the studio sequence of course work. Common core courses for both concentrations include: IDFM 120, IDFM 221, IDFM 222, IDFM 223, IDFM 321, IDFM 410, IDFM 421, IDFM 422, IDFM 427, FACS 311, and MKT 220. A grade of "C" or above must be earned in the required major/support courses. No minor or second major is required.

Fashion Merchandising Concentration
The Fashion Merchandising concentration requires 78 semester hours. Courses required for this concentration are: IDFM 120, IDFM 131, IDFM 132, IDFM 221, IDFM 222, IDFM 223, IDFM 231, FACS 311, IDFM 321, IDFM 322, IDFM 332, IDFM 333, IDFM 335, IDFM 410, IDFM 421, IDFM 422, IDFM 427, IDFM 431, IDFM 432, IDFM 433, IDFM 436, IDFM 438, MGT 210, MKT 220, and 6-hours of electives selected with the advisor.

Interior Design Concentration
The Interior Design concentration requires 81 semester hours. Courses required for this concentration are: IDFM 101, IDFM 120, IDFM 151, IDFM 152, IDFM 201, IDFM 221, IDFM 222, IDFM 223, IDFM 243, IDFM 300, IDFM 301, IDFM 302, IDFM 304, IDFM 321, IDFM 344, IDFM 401, IDFM 402, IDFM 403, IDFM 410, IDFM 421, IDFM 422, IDFM 427, FACS 311, MKT 220, ART 105 or ART 106, and a 3-hour elective selected with the advisor from the following: IDFM 308, IDFM 313, IDFM 360, IDFM 400, IDFM 423, IDFM 424, IDFM 444, IDFM 446, IDFM 448, IDFM 449, AMS 273, AMS 351, ENG 306, HORT 209, MKT 325, PJ 131, or PSY 371.

Minor in Child Studies

Reference Number: 336
Minimum Hours for Minor: 21

The minor in Child Studies requires a minimum of 21 semester hours. A grade of "C" or above must be earned in the following courses required for the minor: FACS 191, FACS 297, FACS 395, FACS 494, and 9 hours of approved electives chosen from the following courses in consultation with departmental advisor: FACS 311, FACS 391, FACS 393, FACS 395, FACS 422, FACS 495, FACS 496, FACS 497, FACS 499. Students majoring in the child studies concentration may not minor in child studies.

Minor in Family and Consumer Sciences

Reference Number: 372
Minimum Hours for Minor: 21

The minor in Family and Consumer Sciences requires a minimum of 21 semester hours. A grade of "C" or above must be earned in the following courses required for this minor: HMD 211, FACS 310, FACS 311, IDFM 100, IDFM 431 and 6 hours of restricted electives chosen in consultation with FACS advisor.

Minor in Family Home Visiting

Reference Number: 370
Minimum Hours for Minor: 21

The Family Home Visiting minor will prepare students to provide home visiting services. Potential clients include those needing parenting skills, those at risk for abusing and neglecting their children, and/or those who need other support services. A grade of "C" or above must be earned in the following required courses: FACS 191, FACS 294, FACS 393, FACS 395, FACS 494, FACS 496, and FACS 497.

Minor in Family Studies

Reference Number: 338
Minimum Hours for Minor: 21

The minor in family studies requires a minimum of 21 semester hours. A grade of "C" or above must be earned in the following courses required for this minor: FACS 191, FACS 310, FACS 311, FACS 494, FACS 495 and 6 hours of restricted electives chosen from the following courses in consultation with departmental advisor: FACS 312, FACS 391, FACS 395, FACS 422, FACS 497, FACS 499. Students majoring in the family studies concentration may not minor in family studies.

Minor in Fashion Merchandising

Reference Number: 486
Minimum Hours for Minor: 30

The minor in Fashion Merchandising requires 30 semester hours. A grade of "C" or above must be earned in the following courses required for this minor: IDFM 131, IDFM 132, IDFM 221, IDFM 223, IDFM 231, IDFM 333, and 12 hours of restricted electives chosen in consultation with departmental advisor.

Minor in Gerontology

Reference Number: 381
Minimum Hours for Minor: 21

The minor consists of 21 hours to be selected from core and elective courses. The core courses are GERO 100 and GERO 485. In addition, 6 hours of primary electives must be chosen from BIOL 344, PH 443, SOCL 342, or PSYS 423. Nine hours of secondary electives must be chosen from CD 489, HMD 367, ECON 365, EXS 455, FIN 161, FIN 444, HCA 340, HCA 345, HCA 353, HCA 355, HCA 471, NURS 451, PH 444, PH 447, PH 464, PHIL 322, PHIL 426, PLS 395, SWRK 326, GERO 461, GERO 481, GERO 490, GERO 495. The Gerontology coordinator should be consulted for assistance in selecting the most appropriate primary and secondary electives and in determining a field or research experience that could be taken toward the end of the coursework in the minor.

Minor in Interior Design

Reference Number: 398
Minimum Hours for Minor: 22

The minor in interior design requires 22 semester hours. A grade of "C" or above must be earned in the following courses required for this minor: IDFM 120, IDFM 201, IDFM 243, IDFM 300, IDFM 304, IDFM 403 and 3 hours of ID electives chosen in consultation with departmental advisor.

Minor in Meeting & Convention Planning

Reference Number: 441
Minimum Hours for Minor: 21

The minor in Meeting & Convention Planning provides students with the range of interdisciplinary skills necessary for success as a meeting, convention, and/or event manager in a variety of planning settings to include numerous venues in the hospitality and tourism industry. The minor requires a minimum of 21 semester hours. Students must complete the following 12 hours of core courses: HMD 171, HMD 313, HMD 375 and HMD 475. In addition, students must complete at least 9 hours of electives from the following list: HMD 151, HMD 276, HMD 351, HMD 373, HMD 378, COMM 240, COMM 263, COMM 330, COMM 345, COMM 346, COMM 362, HORT 209, HORT 309, HORT 330, ENT 312, MGT 311, MGT 333, MKT 323, MKT 325, MKT 328, MKT 329, MKT 331, MKT 425, MKT 427, REC 306, PSYS 370. When selecting electives, a maximum of two courses in this minor may be duplicated in the student's major or another minor (not including the practicum).

Minor in Nutrition

Reference Number: 425
Minimum Hours for Minor: 22-24

The minor in nutrition consists of 22-24 hours. The following courses are required for the minor: HMD 211, HMD 360, and CHEM 109 or CHEM 120/CHEM 121. In addition, students are required to take a 3-hour foods elective from the following list: AGEC 468, AGRI 315, AMS 301, AMS 303, BIOL 336, CHEM 306, GEOG 378, HMD 151, or SOCL 480.

From the following applied nutrition and health electives, students are required to take 9-10 hours: CHEM 304, HMD 364, HMD 367, HMD 368, PH 381, PH 390, PH 443, or PH 464 with at least one of the electives being a HMD course. Students must earn a grade of "C" or better in all courses applied to the Nutrition minor. Required prerequisites must be met for all courses.

Minor in Tourism

Reference Number: 445
Minimum Hours for Minor: 21

The minor in Tourism is an interdisciplinary program between Hospitality Management & Dietetics (HMD) and Recreation Administration (REC). The minor in tourism requires a minimum of 21 hours. Students must complete the following courses: HMD 271, HMD 373, REC 420, and REC 480 or REC 493. Students must also complete 9 elective hours as follows: a) 3 hours from HMD 151, HMD 171, HMD 276, HMD 313, HMD 375; b) 3 hours from REC 302, REC 306, REC 404, REC 426, REC 430, REC 480, REC 493; and c) 3 hours (not duplicated) from HMD 151, HMD 171, HMD 276, HMD 313, HMD 375, REC 302, REC 306, REC 404, REC 424, REC 426, REC 430, REC 480, REC 493, GEOG 481, ENT 312, MKT 321, MKT 323, MKT 326, MKT 331, or MKT 328.

Aging Specialist Certificate

Program Coordinator: T. Wilson

Reference Number: 1722
Minimum Hours for Certificate: 15

The Aging Specialist certificate will help prepare individuals for job opportunities in an aging society and in their personal lives as they and members of their family age. The 15-hour program includes 6 required hours in gerontology and 9 hours distributed across three content areas. Required courses are GERO 100 and GERO 485. The remaining 9 hours are selected among the following categories or as approved by the Aging Specialist Certificate Coordinator. GERO 490 and GERO 495 may be counted toward the certificate.

Biomedical and Health Services (3 hours): BIOL 344, CD 489, EXS 455, GERO 461, HMD 367, NURS 451, PH 443, PH 464.
***Social and Behavioral Sciences (3 hours)*:** GERO 481, SOCL 342, PSYS 423, ECON 365, PH 444, PH 447 PHIL 322, PHIL 426.
Administration, Policy, and Management (3 hours): HCA 340, HCA 345, HCA 353, HCA 355, HCA 471, FIN 161, FIN 444, PLS 395, SWRK 326.

Early Childhood Education Director Certificate

Program Coordinator: D. Babb

Reference Number: 1739
Minimum Hours for Certificate: 12

The Early Childhood Education Director Certificate prepares students to direct a child care center. Upon completion, students will receive the Kentucky Early Childhood Director Credentials. A grade of "C" or above must be earned in the following courses required for this certificate: FACS 191, FACS 193, FACS 335 or FACS 336, and FACS 299.

Family Home Visiting Certificate

Program Coordinator: D. Haynes-Lawrence

Reference Number: 1701
Minimum Hours for Certificate: 12

The Family Home Visiting certificate will prepare students to provide home visiting services. Potential clients include those needing parenting skills, those at risk for abusing and neglecting their children, and/or those who need other support services. A grade of "C" or above must be earned in the following FACS support courses required for this certificate: FACS 395, FACS 494, FACS 497, and 3 hours of electives chosen in consultation with departmental advisor.

Associate Degree Program − The department offers one associate degree program, an Associate of Arts degree in Early Childhood Education (reference number 249). Please see a departmental advisor for details about the program.

Associate Degree in Early Childhood Education (A.A.)

Program Coordinator: D. Babb

Reference Number: 249

Minimum Hours for Degree: 60
Degree: Associate of Arts

The associate of arts degree in Early Childhood Education prepares students to teach, direct or work in early childhood settings servicing infants, toddlers, and young children.

This degree requires 60 semester hours and a grade of "C" or above must be earned in the following courses required for this degree: FACS 180, FACS 191, FACS 193, FACS 198, FACS 292, FACS 294, FACS 297, FACS 299, FACS 311, FACS 313, FACS 335, FACS 336, and FACS 393.

In addition, students must take the following general education courses: ENG 100, ENG 200, COMM 145, MATH 109, SWRK 101, Explorations Arts and Humanities course, and Explorations Natural and Physical Sciences course.

Graduate Programs − The Applied Human Services Department offers a Master of Science in Child and Family Studies and a graduate certificate in Dietetic Practice (ref. # 0451). Courses in Family and Consumer Sciences may be used in Option 1 (content) or Option 2 (minor) of the Masters of Arts in Education (ref #042) or as a minor in the Masters of Arts in Education Secondary Education for Teacher Leaders (ref # 0435). For additional information see www.wku.edu/graduate or the department website.

Center for Gerontology

Acting Director: Travis Wilson
Academic Complex, Cannon Wing, Office 302
Phone: (270) 745-4352; Fax: (270) 745-3999
Email: ahs@wku.edu
Website: www.wku.edu/ahs

The Center for Gerontology is an applied research center guided by the belief that optimal aging is attainable on both the individual and community level and requires implementing holistic strategies. Projects include promoting age friendly communities, mediating injury and disability in later life, understanding generativity among women gerontologists and maximizing financial and physical independence. The Center oversees mini-grants that promote aging research by students and faculty. Located within a historically rural environment, WKU Aging recognizes the value of interdisciplinary and intergenerational collaboration in developing approaches that respect the needs of older adults and the communities where they age. Committed to balancing gerontological theory with practice, the Center nurtures dynamic partnerships between agencies working on aging issues, Western Kentucky University and the international community.

The Center focuses on three strategic areas:

1. Contributing to new knowledge on aging populations and communities through the conduct of applied aging research.
2. Enhancing local capacity for older adults and the communities in which they live through the dissemination of community-based research, best practices, and sponsorship of programmatic activities. The Graduate Certificate in Aging Studies, the Gerontology minor and the Aging Studies Certificate are supported by the Center for Gerontology.
3. Preparing new generations of aging advocates to work with older adults, their families, and their communities.

The Center is an inaugural member of the Global Aging Research Network (GARN) through the International Association of Gerontology and Geriatrics and was one of the original seven US partners in World Health Organization Age Friendly Cities and Communities project. It is the home of the institutional membership of the Association of Gerontology in Higher Education and supports excellence in aging through sponsorship of a chapter of Sigma Phi Omega, the national honor society for aging and C.O.R.E., the Companions of Respected Elders.

Department of Communication Sciences and Disorders

Dr. Jean Neils-Strunjas, Head

Academic Complex, Room 104
Phone: 270-745-8998; Fax: 270-745-3441
Website: www.wku.edu/communicationdisorders

Professor: J. Neils-Strunjas
Associate Professors: L. Bland, B. Brindle, R. Dressler, J. Shackelford
Assistant Professors: A. Chance-Fox, K. Green, B. Weiler
Instructor I: J. Smith, H. Bean Bryant
Clinical Associate Professors: J. Barefoot, L. Hutchison, M. L. Moore, L. A. Roden-Carrier
Professors Emeriti: S. Cooke, F. Kersting

Major in Communication Disorders

Program Coordinator: L. Hutchison

Reference Number: 595P (seeking admission)
595 (officially admitted)
Minimum Hours for Major: 58

Minimum Hours for Degree:120
Degree: Bachelor of Science

Suggested Degree Path: http://wku.edu/degreepaths/18-19/documents/chhs/communications_disorders_595.pdf

The major for students in Communication Disorders (reference number 595P prior to being accepted to the program and reference number 595 after being officially accepted to the undergraduate program) is a Pre-Professional program that requires 58 hours in the specialization areas of speech-language pathology and audiology. All courses follow guidelines recommended by the American Speech-Language-Hearing Association (ASHA). Prior to selecting Colonnade courses, you must obtain approval from your Communication Sciences and Disorders Department academic advisor to ensure selected courses meet requirements set forth by ASHA.

The undergraduate program prepares students academically for graduate study in speech-language pathology, audiology, or related areas. A master's degree is needed for national certification in speech-language pathology and an Audiology Doctorate is needed for audiology. Majors in Communication Disorders are encouraged to apply for graduate programs in December of their senior year, including to the Western Kentucky University Master of Science program in speech-language pathology. Licensure is also necessary in Kentucky but other states have various mandates for practicing professions following the Master of Science program.

Those interested in a Major in Communication Disorders should have sophomore status, be officially admitted to WKU, and submit:

1. Most recent transcript (including the Fall semester grades) documenting a minimum cumulative GPA of 3.5.
2. Documentation of highest ACT or SAT score
3. A completed application for official admission to the program (found on departmental website).
4. CD 280, CD 290, and CD 347 are prerequisite courses for admission to the CD 595 major.

A GAP score will be computed by multiplying the most current GPA and the student's ACT/SAT score with the top GAP scores comprising the accepted cohort.

Applications for admission into the undergraduate major are accepted until February 15. Students admitted during March of any given year will begin major coursework during the fall semester following admission. Due to the clinical practicum component of this major, enrollment to the undergraduate program is limited.

Required courses for the major are:

1. ***Specialization Areas*** (58 hours) - CD 280, CD 290 (1 hour), CD 347, CD 348, CD 405, CD 478, CD 481, CD 482, CD 483, CD 484, CD 485, CD 486, CD 487, CD 488, CD 489, CD 490, CD 491, CD 492, and CD 495 (6 hours).
2. ***Additional Required Courses*** (16 hours) – Statistics (3 hours) – MATH 183, PH 383, SOCL 300 or other advisor approved course; Chemistry or Physics (3-4 hours) – Any CHEM course or PHYS 130; Psychology or Psychological Science (3 hours)– PSY 100 or Any PSYS course; BIOL– BIOL 131 (4 hours), ENG 300 (3 hours). (Additional required courses may be used to fulfill both Colonnade and Communication Disorders program requirements.)

All undergraduate students are required to complete supervised clinical clock hours working with people having communication disorders. Students will be required to undergo criminal background checks and provide proof of a recent physical examination, professional liability insurance, and a tuberculin skin test prior to beginning any clinical experiences, which must be updated annually. It is the responsibility of the student to ensure that all university requirements are met as a condition of participating in clinical experiences. Students may be responsible in part or in full for any costs incurred to meet such requirements.

When planning a program of study, each student should be aware of the university's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department head.

Minor in American Sign Language Studies

Reference Number: 307
Minimum Hours for Minor: 21

The minor in American Sign Language Studies requires a minimum of 21 hours. Students will learn communication competency in a visual language and gain a better understanding of the Deaf and Hard of Hearing culture. This minor builds a solid foundation of ASL language and skills but does not lead to interpreter or Deaf Education certification. Students are required to take the following courses: ASL 101, ASL 102, ASL 201, ASL 301, ASL 401, and ASL 403. In addition, students must select a 3-hour elective from one of the following courses: ASL 303, ASL 306, ASL 309, or ASL 402.

Deaf Studies Certificate

Program Coordinator: A. Chance-Fox

Reference Number: 1738
Minimum Hours for Certificate: 15

The Deaf Studies Certificate will broaden student knowledge of Deaf and Hard of Hearing individuals, with an emphasis on Deaf Culture. The Deaf Studies Certificate will not qualify students to become licensed interpreters. A minimum of 15 semester hours, with a grade of "C" or better must be obtained to successfully complete the certificate.

Students are required to take the following courses (15 hours): ASL 101, ASL 102, ASL 302, ASL 303. In addition, students must choose one course from the following elective courses (3 hours): ASL 403 or ASL 406.

School of Kinesiology, Recreation & Sport

Dr. Ron Ramsing, Director

Houchens Industries L.T. Smith Stadium East
Phone: (270) 745-3349; Fax: (270) 745-6043
Website: http://www.wku.edu/krs

Professors: F. Gibson, S. Lyons, R. Miller, R. Poff, R. Ramsing
Associate Professors: S. Arnett, J. Crandall, K. Esslinger, B. Pyle, M. Schafer, T. Stenger-Ramsey, P. Upright
Assistant Professors: T. Esslinger, A. Funk, S. Herrick, T. Jordan, E. Knackmuhs, L. McCoy, A. McCreary, E. Oregon, B. Stinnett, R. Tinius
Visiting Assistant Professors: S. Forsythe
Instructor I: S. Hope, T. Lane, T. Obee
Transitional Retiree: R. Deere, S. Spencer

The function of the School of Kinesiology, Recreation and Sport at Western Kentucky University is twofold: (1) it serves the needs of the University at large by providing courses devoted to the study of movement, physical skill development and fitness; and (2) it provides an opportunity for specialized study in Exercise Science, Physical Education, Recreation Administration, and Sport Management.

Major in Physical Education

Program Coordinator: E. Pyle

Reference Number: 587
Minimum Hours for Major: 72-75

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path for Concentration:
Movement Studies: http://wku.edu/degreepaths/18-19/documents/chhs/physical_education_movement_studies_587.pdf

Teacher Education: http://wku.edu/degreepaths/18-19/documents/chhs/physical_education_teacher_ed_587.pdf

The major in Physical Education is designed to develop positive teaching skills in physical activity and to meet the need for qualified teachers in public/private schools, business settings, or community agencies.

The major requires 75 semester hours for the Physical Education Teacher Education concentration and 72 hours for the Physical Education Movement Studies concentration, both of which lead to a Bachelor of Science in Physical Education.

Students, who complete the professional education requirements with the Physical Education Teacher Education concentration, may be certified in the Teacher Education program. Students in the Physical Education major must complete the following core courses: PE 111, PE 121, PE 122, PE 123, PE 211, PE 212, PE 220, PE 222, PE 223, PE 300, PE 310, PE 311, PE 313, PE 314, PE 319, PE 320, PE 324, and PE 416. BIOL 131 is a prerequisite for PE 310 and PE 311.

Students need to select one of the two concentrations: 1) Physical Education Teacher Education, or 2) Physical Education Movement Studies (non-teacher certification). The Physical Education Teacher Education concentration requires the following 32 hours: EDU 250, LTCY 421, SPED 330, PETE 322, PETE 415, PSY 310, SEC 478, EDU 489, and two of the following: ELED 490, MGE 490, and SEC 490. The Physical Education Movement Studies (Non-Certification) concentration requires 29 total hours (half of which must be at the 300- or 400-level); PEMS 326 and PEMS 426 are required for this concentration. In addition, 12 hours of advisor approved electives and 13 hours from the following: SFTY 171, HMD 211, PH 381, PH 467, PH 385, PH 390, and PH 456.

Students majoring in Physical Education are required to meet with their advisor before enrolling for the next semester. A Health Education minor is recommended for all Physical Education Teacher Education majors.

Students must maintain a "C" or better in all coursework for this major. Students in the PETE concentration must meet all requirements for admission into the teacher education program and be admitted into Teacher Education prior to registering for PETE 415 and SEC 478.

Major in Exercise Science

Program Coordinator: M. Schafer

Reference Number: 554P (seeking admission)
554 (officially admitted)

Minimum Hours for Degree: 120

Degree: Bachelor of Science

Minimum Hours for Major: 55

Suggested Degree Path: http://wku.edu/degreepaths/18-19/documents/chhs/exercise_science_554.pdf

The Exercise Science major provides extensive study in many areas including exercise physiology, kinesiology, and biomechanics. Our highly qualified graduates pursue professional certifications, (e.g. ACSM) Certified Exercise Physiologist® (ACSM – EP) and NSCA Certified Strength and Conditioning Specialist (CSCS), and may go on to pursue careers in cardiopulmonary rehabilitation, strength & conditioning, corporate fitness, medically-based fitness programs, public health, and other related fields. In addition, graduates often pursue graduate and professional programs such as physical therapy, occupational therapy, exercise physiology, and athletic training, as well as other health, physical activity, research, and rehabilitative professions. Students must maintain a "C" or better in each course in the major. Additionally, in accordance with university policy, an overall grade point average of 2.0 or better must be attained upon on the completion of required curriculum.

To be admitted to the Exercise Science program, students must have:

- completed 39-40 hours of coursework;
- completed the following courses with a grade of "C" or higher: EXS 122, EXS 223, EXS 296, HMD 211, SFTY 171, BIOL 131, CHEM 109 or CHEM 120/CHEM 121, MATH 116, PSY 100/PSYS 100 or PSY 220/PSYS 220 or SOCL 100 or GERO 100;
- a WKU and cumulative 2.5 GPA or higher;
- All application materials must be received by the application date in order to be fully considered for entrance into the program. A complete application packet would include: (1) application, (2) prerequisite coursework worksheet, and (3) resume.
- Work with your advisor regarding the appropriate time for the submission of your application. Please track your progress each semester and fill out the course prerequisite worksheet. You may submit your application when you are currently enrolled in your final 2 prerequisite courses and will be completing the total hours (39-40). *Please submit your application a minimum of 3 weeks prior to your priority registration date.* Any delay in receiving your application will limit your ability to enroll in the Exercise Science (EXS) courses

Students must complete the following courses: EXS 122, EXS 223, EXS 296, EXS 310, EXS 311, EXS 312, EXS 313, EXS 324, EXS 325, EXS 412, EXS 420, EXS 436, EXS 446, EXS 455, EXS 496 or EXS 498, HMD 211, and SFTY 171.

Major in Recreation Administration

Program Coordinator: R. Poff

Reference Number: 589
Minimum Hours for Major: 48

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Paths Per Concentration:
Recreation Services: http://wku.edu/degreepaths/18-19/documents/chhs/recreation_administration_589.pdf
Nonprofit Administration: http://wku.edu/degreepaths/18-19/documents/chhs/recreation_administration_nonprofit_admin_589.pdf
Outdoor Recreation: http://wku.edu/degreepaths/18-19/documents/chhs/recreation_administration_outdoor_recreation_589.pdf
Facility and Event Management: http://wku.edu/degreepaths/18-19/documents/chhs/recreation_administration_facility_and_event_management_589.pdf
Commercial Recreation & Tourism: http://wku.edu/degreepaths/18-19/documents/chhs/recreation_administration_commerical_recreation_tourism_589.pdf

The major in Recreation Administration prepares students for exciting recreation and experience industry careers in the nonprofit, government, and private sectors. These careers are designed to help individuals, families, and communities improve their quality of life. Students pursue a concentration in Recreation and Sport Services, Nonprofit Administration, Outdoor Recreation, Facility and Event Management, or Recreation and Tourism.

The major requires a minimum of 48 semester hours (36 core + 12 concentration) and leads to a Bachelor of Science degree.

Students must complete the following 36 hours of required recreation courses: REC 200, REC 302, REC 306, REC 320, REC 328, REC 338, REC 402, REC 406, and REC 490. In addition to the above-required courses, students must complete one of the following concentrations:

Students in the **Recreation and Sport Services concentration** must complete 12 hours from the following list or other courses approved by their Recreation Administration advisor: REC 220, REC 222, REC 235, REC 330, REC 332, REC 335, REC 337, REC 404, REC 420, REC 422, REC 424, REC 426, REC 430, REC 434, REC 435, REC 437, REC 439, REC 460, REC 480, REC 482, REC 484, REC 493, SPM 200, SPM 300, SPM 305, SPM 310, SPM 315, PE 122, PE 211, PE 212, PE 222, PE 300, PE 319, PE 340, PE 341, PE 342, PE 343, EXS 122, EXS 223, EXS 296, MKT 220, MGT 210, or ACCT 200.

Students in the **Nonprofit Administration concentration** must complete the following 12 hours: REC 220, REC 460, MKT 220, MGT 333 or PS 340, or other courses approved by their Recreation Administration advisor.

Students in the **Outdoor Recreation concentration** must complete the following 12 hours: Foundations (3 hours): REC 330; Resources: (3 hours): REC 332, REC 430, or REC 434; Technical Skills (3 hours): REC 235, REC 335, REC 337, or REC 439; Electives (3 hours unduplicated): REC 332, REC 335, REC 337, REC 424, REC 430, REC 434, REC 435, REC 437, REC 439, REC 480, REC 482, REC 493, or other courses approved by their Recreation Administration advisor. At least 6 hours need to be selected from 400-level courses.

Students in the **Facility and Event Management concentration** must complete the following 12 hours: 3 hours from REC 404, REC 426, or SPM 404; 3 hours from HMD 375, or SPM 305; 3 hours from SPM 315,SPM 450, MKT 220 or MKT 331; and 3 hours (unduplicated) from REC 404, REC 420, REC 422, REC 424, REC 426, REC 430, REC 434. REC 439, HMD 375, HMD 475, or other courses approved by their Recreation Administration advisor.

Students in the **Commerical Recreation and Tourism concentration** must complete the following 12 hours: REC 420 and HMD 271; and 6 hours from REC 480, GEOG 481, HMD 373, HMD 375, HMD 475, ENT 312, MKT 331, or other courses approved by their Recreation Administration advisor.

Major in Sport Management

Program Coordinator: P. Upright

Reference Number: 572P (seeking admission)
572 (officially admitted)
Minimum Hours for Major: 57

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Suggested Degree Path: http://wku.edu/degreepaths/18-19/documents/chhs/sport_management_572.pdf

The Bachelor of Science degree in Sport Management is a program which prepares students for a variety of successful careers within the sport industry. Course work focuses on key content areas including; sport management and leadership principles, operations, event & venue management, governance, ethics, marketing, legal, financial and integrative experiences.

To be admitted to the program, students must have:

- a minimum of an overall WKU GPA of 2.5.
- completed the following courses with a grade of C or higher: ACCT 200, COMM 145, ECON 202, MKT 220, SPM 200, and MGT 210.
- submitted a complete application including resume.

Students must complete 42 hours of the following required core courses for the major: SPM 200, SPM 290, SPM 404, SPM 402, SPM 450, SPM 452, SPM 454, SPM 490, ACCT 200, MKT 220, and MGT 210. Students must also choose 15 hours from the following list of required elective courses: SPM 300, SPM 305, SPM 310, SPM 456, ECON 323, MKT 326, SOCL 324, SPM 315 or PR 255, or PSY 340.

Prior to being allowed to take the SPM 490 course, students must have completed all courses required in the major (except SPM 490) and must have a minimum 2.8 GPA in all major courses. The remaining hours required to meet the university's requirement of 120 hours should be used to either: 1) take other electives of interest to the student or 2) select a minor that best prepares them for entry-level positions related to their interest within the sport industry. Complementary minors include but are not limited to: athletic coaching, broadcasting, business administration, economics, finance, nonprofit administration, community recreation, and facility and event management.

Minor in Athletic Coaching

Program Coordinator: K. Esslinger

Reference Number: 320
Minimum Hours for Minor: 21-24

The minor in Athletic Coaching is designed to develop positive teaching/coaching skills in athletics and to meet the need for qualified coaches in public/private schools, business settings or community agencies.

The minor requires 21-24 semester hours. Students must complete the following courses: PE 211, PE 212, PE 222, PE 310, PE 311, PE 312, PE 497, and SPM 200. In addition to these core courses, students shall have the option to select three hours from the following coaching courses: PE 340, PE 341, PE 342, or PE 343. Students must maintain a "C" or better in each course in the minor.

Minor in Community Recreation

Program Coordinator: R. Ramsing

Reference Number: 346
Minimum Hours for Minor: 24

The minor in Community Recreation requires a minimum of 24 semester hours. Students must complete the following courses: REC 200, REC 302, REC 306, REC 328, REC 420, and REC 493. In addition, students must complete 6 hours of electives from the following list: REC 220, REC 222, REC 326, REC 332, REC 422, REC 424, REC 426, REC 428, REC 430, REC 482.

Minor in Facility and Event Management

Program Coordinator: R. Poff

Reference Number: 367
Minimum Hours for Minor: 21

The Facility and Event Management minor provides students with practical knowledge and skills needed for successful careers in facility planning and event management.

Students must complete the following 21 hours: REC 306; 3 hours from REC 404, REC 426, SPM 404; 3 hours from SPM 305, HMD 375; 3 hours from SPM 315, SPM 450, SPM 452, MGT 301, HMD 378, MKT 331; 6 hours (unduplicated) from REC 404, REC 420, REC 422, REC 424, REC 426, REC 430, REC 434, REC 439, HMD 375, or HMD 475; and REC 493, or other courses approved by the Facility and Event Management advisor.

Minor in Nonprofit Administration

Program Coordinator: T. Jordan

Reference Number: 422
Minimum Hours for Minor: 21-24

The minor in Nonprofit Administration prepares students for careers in, and service to, the nonprofit sector. Students take courses from several departments and programs of study to gain needed nonprofit competencies and experiences. This minor consists of 21-24 hours including the following required courses: REC 220, MGT 333, (ACCT 200 or REC 402 or SPM 402), REC 460, and REC 496 (150-300 hours of internship experience for 3-6 credit hours).

Students are required to take 6 hours of electives chosen from the following list or other courses as approved by the program coordinator: ACCT 420, BA 110, HMD 271, HMD 375, COMM 240, COMM 345, COMM 348, COMM 349, COMM 362, COMM 260, COMM 463, ECON 202, ENG 301, ENG 306, ENG 307, ENG 415, FIN 330, GERO 100, GERO 495, DCS 300, CSJ 301, LEAD 200, LEAD 325, LEAD 330, LEAD 395, MGT 210, MGT 311, MKT 220, PERF 423, PHIL 320, [PHIL 323, RELS 323, PS 250, PS 338, PSY 220/PSYS 220, PSYS 321, PSY 350, PSY 422, PSY 442, REC 302, REC 306, REC 328, REC 404, REC 424, SOCL 100, SOCL 210, SOCL 240, SOCL 300, SOCL 360, SOCL 362, SOCL 375, SOCL 410, SPM 200, SPM 452, SWRK 101, SWRK 205, SWRK 330, SWRK 344, SWRK 379. No more than 15 hours from any prefix may be used to fulfill the minor requirements. Some courses have prerequisites. Visit www.wku.edu/nonprofit for more information.

Minor in Outdoor Experience Leadership

Program Coordinator: T. Stenger-Ramsey

Reference Number: 426
Minimum Hours for Minor: 24

The Outdoor Experience Leadership Minor consists of 24 hours designed to provide students with the theoretical and practical skills necessary to become leaders within the outdoor education, adventure, or resource management professions. The following foundations courses are required for the minor: REC 330 and REC 332.

Students must also complete 18 hours as follows: a) 6 hours from the following skill-development courses: REC 335, REC 337, REC 424, REC 434, or REC 439; b) 3 hours from the following planning courses: REC 430 or REC 435. c) 3 hours from the following leadership development courses: REC 437 or REC 493; d) 6 elective hours (unduplicated) from: REC 235, REC 335, REC 337, REC 338, REC 424, REC 430, REC 434, REC 435, REC 437, REC 439, REC 480, REC 482, or REC 493.

Minor in Physical Education

Program Coordinator: E. Pyle

Reference Number: 432
Minimum Hours for Minor: 27

The minor in Physical Education requires a minimum of 27 semester hours. This minor is not a certifiable teaching field in Kentucky. The courses required are: PE 122, PE 211, PE 212, PE 222, PE 223, PE 310, PE 311, PE 312, PE 313 and PE 324.

Minor in Tourism

Program Coordinator: R. Poff

Reference Number: 445
Minimum Hours for Minor: 21

The minor in Tourism is an interdisciplinary program between Hospitality Management & Dietetics (HMD) and Recreation Administration (REC). The minor in Tourism requires a minimum of 21 hours. Students must complete the following courses: HMD 271, HMD 373, REC 420, and REC 480 or REC 493.

Students must also complete 9 elective hours as follows: a) 3 hours from HMD 151, HMD 171, HMD 276, HMD 313, HMD 375; b) 3 hours from REC 302, REC 306, REC 404, REC 426, REC 430, REC 480, REC 493; and c) 3 hours (not duplicated) from HMD 151, HMD 171, HMD 276, HMD 313, HMD 375, REC 302, REC 306, REC 404, REC 424, REC 426, REC 430, REC 480, REC 493, GEOG 481, ENT 312, MKT 321, MKT 323, MKT 326, MKT 331, MKT 328.

Graduate Programs − The school offers courses and programs leading to the Master of Science in Recreation and Sport Administration and the Master of Science in Kinesiology and graduate certificates in Facility and Event Management; Intercollegiate Athletic Administration; and Nonprofit Administration. For additional information, see http://www.wku.edu/graduate or https://www.wku.edu/krs/graduate_programs.php.

School of Nursing

Director: Dr. Mary Bennett

Health Sciences Complex, Office 2200
Phone: (270) 745-3391; Fax: (270)745-3392
Website: http://www.wku.edu/nursing

Professors: C. Abell, M. Bennett, D. Garrett-Wright, E. Main
Associate Professors: L. Alexander, T. Bragg-Underwood, L. Branstetter, C. Briggs, C. Evans, K. Green, K. Harris, S. House, S. Lovan, L. Moore, L. Sturgeon
Assistant Professors: M. Blankenship, K. Haughtigan, K. Link, M. Smith, K. Vickous
Instructor II: D. Hanson, M. Wilson
Instructor I: K. Bourne, S. Cole, C. DeHay, C. Ellis Griffith, E. Groves, L. Larson, T. Jenkins, L. Miller, B. Minix, M. Peterson, R. Quenzer, T. Richards, V. Shoumake, K. Watson, L. Wheat, D. Wooden
Clinical Associate Professor: A. Cornell, L. Fox
Clinical Assistant Professors M. Flener, N. Jones
Transitional Retirees: D. Blackburn, B. Siegrist, J. Walker
Professional Staff: E. Browning, M. Clemons, R. Collins, T. Flanigan, L. Hall, M. Hamlin, D. Harper, N. Holland, S. Jones, R. Kilgore, J. Lawyer, M. Tedder

Programs: The School of Nursing offers the following programs: Associate of Science in Nursing (ASN), Bachelor of Science in Nursing (BSN), RN to BSN, Master of Science in Nursing (MSN), MSN to Doctorate in Nursing Practice (MSN-DNP), and BSN to Doctorate in Nursing Practice - Family Nurse Practitioner focus (BSN-DNP).

This catalog provides information about the undergraduate Nursing programs. For information about the graduate programs, see www.wku.edu/graduate or contact the department.

Program Accreditation: The Associate of Science in Nursing program is accredited by the Accreditation Commission for Education in Nursing (ACEN) 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, 404.975.5000, www.acenursing.org.

The Baccalaureate, Masters, and Doctoral Nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE) 655 K Street NW, Suite 750, Washington, DC 20001, (202) 887-6791, http://www.ccneaccreditation.org. All WKU nursing programs are approved by the Kentucky Board of Nursing.

Admission: Admission to the nursing programs is competitive and requires a separate application. Enrollment in the nursing programs is limited and based on student qualifications, availability of faculty, and clinical resources. Additional admission information and application deadlines are available on the School of Nursing website.

Colonnade Requirements and Regulations: When planning a program of study in the School of Nursing, each student should be aware of the University's academic requirements contained in this catalog in the chapter "Academic Information." Specific attention should be given to the subsections regarding (a) Academic Programs, (b) Colonnade Requirements and (c) Academic Requirements and Regulations. For the most current curriculum requirements, please review the program curriculum information located on the School of Nursing website at www.wku.edu/nursing.

Upon acceptance into each program, students will be required to provide the following information/documentation:

- Professional Liability Insurance
- Annual Tuberculin (TB) test
- Current medical history
- Health Insurance
- Immunization records
- Completed medical exam
- Cardiopulmonary Resuscitation Certificatic (CPR)
- Annual Influenza Vaccination
- Drug Screen
- Criminal Background check

The Kentucky Board of Nursing (KBN) requires a criminal background check when applying for a Registered Nurse (RN) license and rejects candidates with some types of misdemeanors and any felony conviction.

Therefore, students will be required to disclose any felony or misdemeanor convictions at the time of application to the nursing program and have a criminal background check and drug screen upon acceptance into the program and at random intervals throughout the program. Additionally, there may be certifications, training seminars, or other requirements specified by the program, facility, or agency that students must meet in order to be eligible for a clinical experience.

Students will be responsible for purchasing uniforms as described in the student handbook and any necessary supplies. Students are responsible for program, testing and course fees each semester in addition to the regular tuition. See the School of Nursing website for most current fee information. Students are responsible for providing transportation to and from off-campus experiences. It is expected that prospective students review the School of Nursing Student Handbook for additional information on policies, regulations, and requirements.

Core Performance Standards: These are the Southern Regional Educational Board approved technical standards for students in nursing programs. These standards must be met by all nursing students with or without reasonable accommodation. Students with disabilities who require accommodation (academic adjustment and/or auxiliary aids or services) to meet the core performance standards must contact the Student Accessibility Resource Center (SARC) and obtain evaluation of any necessary accommodations prior to entering the WKU nursing programs. Please see the student handbook located on the School of Nursing website at www.wku.edu/nursing for more information.

Associate of Science in Nursing (ASN)

South Campus, Room C139
Phone: 270-780-2506; Fax: 270-780-9419

Reference Number: 273P (seeking admission)
273 (officially admitted)
Minimum Hours for Major: 61

Minimum Hours for Degree: 61
Degree: Associate of Science in Nursing

The Associate of Science in Nursing (ASN) program assists Licensed Practical Nurses (LPNs) in ASN Program completion by offering various delivery methods, scheduling options, challenge exams and experiential credit. The ASN Program prepares the graduate as a generalist to give nursing care in a variety of health care settings and provides the knowledge base for career mobility. ASN Program graduates are eligible to write the NCLEX exam to become a registered nurse.

Required Curriculum
The ASN Program consists of coursework in nursing, supportive sciences and general education courses. The degree requires a minimum of 61 semester hours including 42 semester hours in Nursing courses plus 19 hours of other courses which include BIOL 131, BIOL 207, PSY 220/PSYS 220, ENG 100, a 3 hour Quantitative Reasoning course, and one 3-hour Arts and Humanities (AH) course.

Required nursing courses include NUR 104, NUR 105, NUR 106, NURS 150, NUR 155, NUR 156, NUR 157, NUR 165, NUR 166, NUR 208, NUR 209, NUR 215, NUR 216, NUR 254, NUR 255, and NUR 257.

Applicants seeking admission to the ASN Program:

1. Submit the nursing program application by the designated deadline.
2. Submit application for admission to Western Kentucky University if not already enrolled.
3. Take the required admission assessment test.
4. Participate in an admission interview process if requested.
5. Applicants with less than 10 earned university credit hours must submit ACT examination results.
6. Applicants with 10 or more earned university credit hours must have a cumulative grade point average of 2.75 or greater. Grade point average for the applicant with either an earned bachelor's degree or higher will be calculated using only the ASN program's required non-nursing courses.
7. Applicants who have completed college course/degrees at institutions other than WKU must submit a copy of his/her transcript to the ASN program with application as well as request an official transcript be sent to the WKU Office of Admissions, Potter Hall, Room 117, 270.745.2551 in order to receive transfer credit for required courses.
8. Submit copy of current LPN license.

Upon admission to the ASN Program, and after successful completion of NUR 150, PSY 220/PSYS 220, and BIOL 131, the licensed practical nurse will submit proof of current LPN license to the LPN to ASN Program Coordinator for the awarding of nine hours academic credit for NUR 104, NUR 105, and NUR 106.

LPNs may receive credit on the basis of departmental examinations for NUR 165, NUR 215, and NUR 254. LPNs must contact the ASN Program office for examination details. Additionally, LPNs may receive experiential credit for NUR 156, NUR 166, and NUR 216 after successful completion of each clinical course's didactic component.

Baccalaureate of Science in Nursing (BSN)

Health Sciences Complex, Room 2204
Phone: 270-745-3391; Fax: 270-745-3392

Reference Number: 586P (seeking admission)
586 (officially admitted)
Minimum Hours for Major: 57

Minimum Hours for Degree: 120
Degree: Bachelor of Science in Nursing

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/chhs/nursing_586.pdf

The graduate with a Bachelor of Science in Nursing degree is prepared to be a professional nurse who is a generalist and who has the knowledge base for graduate study in nursing. The baccalaureate degree nurse is prepared to practice nursing in a variety of healthcare settings with emphasis on comprehensive nursing care including prevention of illness, health promotion, restoration and rehabilitation. The graduate is prepared to function in the leadership roles of the professional nurse.

The Bachelor of Science in nursing program is designed to prepare the student to write the National Council Licensure Exam (NCLEX-RN) to become a registered nurse. Entry into the BSN program is at the junior level, following completion of all general education and nursing pre-requisite courses. The upper division BSN nursing program consists of four semesters of full time study with 57 credit hours in the major. See School of Nursing website for example 4-year curriculum plan. Clinical hours are scheduled to meet clinical agency needs. Therefore, to avoid scheduling issues, it is required that students complete all non-nursing courses prior to entry into the nursing program. Students must progress as a cohort once admitted to the nursing program. Part-time progression is not currently available in the BSN program.

Pre-Nursing (586P)

Prior to admission into the nursing program, students are required to meet the university Colonnade (general education) requirements and a set of prerequisite courses required of all nursing students. Students who want to declare as a nursing major prior to admission into the nursing program are designated as Pre-Nursing students (reference 586P) and are assigned an advisor in CHHS. Pre-Nursing students will meet with advisors to discuss their academic preparation and determine the appropriate courses for registration. Pre-Nursing students must maintain a GPA of 2.75 or above to remain in the pre-nursing program. For more details and frequently asked questions about preparation for admission into nursing and deadlines for applications, please see the School of Nursing website. Support services in Advising and Career Development Center are available to students who decide to change from Pre-Nursing to another health related career (2nd floor Downing Student Union).

Admission to the nursing program is limited and based on selection of the most qualified applicants who meet all admission requirements. The program can be completed in 4 years if the student completes all prerequisite courses, is admitted to the nursing program in the junior year and successfully completes all nursing courses in sequence.

Guaranteed Nursing Admission (GNA) to the WKU BSN program is available to first-time, full-time college freshmen and is not available for transfer students. This is a competitive application process.

Prior to completing the GNA application, you must apply for admission to WKU, submit your ACT scores and obtain a WKU ID number. See http://www.wku.edu/atwku/admissions.php for details.

Students seeking the GNA must have an ACT composite score of 23 or above. In addition, all students seeking entry into the WKU BSN program must be able to meet all nursing admission requirements. Please see the School of Nursing website for details.

If awarded a GNA, students must maintain a 3.0 GPA while a full-time student in the pre-nursing program. GNA students must also initially obtain a grade of “B” or above in the following courses: CHEM 109, BIOL 131, BIOL 231, BIOL 207, BIOL 208, and NUS 302. All general education courses and nursing required prerequisite courses must be completed prior to entering the nursing program.

GNA students who maintain the above standards will be guaranteed admission to the WKU BSN program in either the Fall or Spring semester on or before the third year. If the student is not able to enroll in the BSN program during this timeframe for any reason, the GNA student will forfeit the GNA status and must reapply to the nursing program with the general applicant pool to compete for a space in the BSN program.

In addition to completion of Colonnade requirements, the following prerequisite/support courses must be completed prior to entry into the Bachelor of Science in Nursing program. Some nursing support courses may be used for both Colonnade and nursing prerequisites.

Required Pre-Nursing Curriculum for Bachelor of Science in Nursing Degree

MATH 115 or MATH 116, BIOL 131, BIOL 231, PSY 220/PSYS 220, NURS 324, NURS 102, CHEM 109, BIOL 207, BIOL 208, HMD 211, and a statistics course selected from ECON 206, MATH 183, PH 383, PSY 313/PSYS 313, SOCL 300, or SWRK 344.

The student must also have completed all requirements for general education (WKU Colonnade Program or approved general education certification transferred to WKU) prior to entry into the upper division BSN program.

Be admitted to Western Kentucky University.

1. Complete all designated prerequisite courses.
2. Have an overall grade point average of 2.75 or above for college level courses.
3. Have attained a minimum of a "C" in NURS 102, NURS 324, BIOL 131/BIOL 231, BIOL 207/BIOL 208, CHEM 109, MATH 115 or MATH 116, HMD 211, PSY/PSYS 220, and the selected Statistics course (ECON 206, MATH 183, PH 383, PSY 313/PSYS 313, SOCL 300 or SWRK 344). Anatomy and Physiology 1 and 2 must have been completed no more than 5 years prior to application to the nursing program and from the same institution. Students who have obtained a minimum grade of "C" in Anatomy and Physiology more than 5 years prior to application to the nursing program must either retake the courses, or demonstrate current competency by scoring a 77% or better on the Anatomy & Physiology section of the entrance exam prior to application to the nursing program.
4. Submit application to the School of Nursing by posted deadline on website.
5. Students may be asked to participate in a preadmission interview and/or testing.

Required Nursing Curriculum for Bachelor of Science in Nursing Degree
Students are required to take the following 57 hours and earn a grade of "C" or higher in each course: NURS 329, NURS 333, NURS 334, NURS 335, NURS 336, NURS 337, NURS 341, NURS 342, NURS 343, NURS 344, NURS 403, NURS 413, NURS 421, NURS 422, NURS 429, NURS 432, NURS 433, NURS 444, NURS 445, NURS 448, NURS 449.

RN to BSN Completion Program

Health Sciences Complex, Room 3322
Phone: (270) 745-2391; Fax: (270) 745-3392

Reference Number: 596
Minimum Hours for Major: 67

Minimum Hours for Degree: 120
Degree: Bachelor of Science in Nursing

Sample Degree Path: (full-time): http://wku.edu/degreepaths/18-19/documents/chhs/nursing_rn_to_bsn_fulltime_596.pdf (part-time): http://wku.edu/degreepaths/18-19/documents/chhs/rn_to_bsn_596_part_time.pdf

The RN to BSN program is designed for students who are registered nurses (RN). Each semester, two (2) cohorts of students will be admitted, a part-time and full-time cohort. When accepted for admission, students must choose which cohort they would like. The students in each of these cohorts will progress through the curriculum as a group and must take courses as noted in planned schedule for the designated cohort. The full-time cohort is reserved for students who have completed all general education and statistics requirements. Students admitted pending NCLEX will be permitted to enroll in the part-time cohort. If unsuccessful on the NCLEX, the student will not be allowed to progress in the nursing cohort courses.

RNs seeking admission to the RN to BSN program must:

1. Be admitted to Western Kentucky University.
2. Have an associate degree in Nursing or if the applicant is a diploma graduate, he/she is required to submit documentation to validate nursing and general education academic preparation and clinical experience.
3. Have a cumulative grade point average of 2.5 or above for college level courses.
4. Complete application for the RN to BSN program by designated deadlines.

Curriculum requirements for the RN to BSN program include completion of:

1. 36 hours of upper division nursing credit. (A registered nurse with an associate degree in nursing receives a 6-hour waiver in the upper-division hour requirement.) The required courses are: NURS 300, NURS 309, NURS 315, NURS 321, NURS 323, NURS 339, NURS 340, NURS 400, NURS 408, NURS 412, NURS 430, NURS 431.
2. University general education requirements (WKU Colonnade Program or approved general education certification transferred to WKU).
3. Three-hour statistics course.

Department of Physical Therapy

Dr. Beth Norris, Interim Head

Health Science Complex, Office 3047
Phone: (270) 745-4071; Fax: (270) 745-3497
Website: www.wku.edu/physicaltherapy

Associate Professors: K. Neelly, E. Norris, S. Young
Assistant Professors: D. Bell, K. Furgal, M. Kennedy

The Department of Physical Therapy offers graduate courses designed to prepare entry-level Doctor of Physical Therapy professionals. For additional information, see http://www.wku.edu/graduate, or the departmental website http://www.wku.edu/physicaltherapy.

Department of Public Health

Dr. William Mkanta, Head

Academic Complex, Office 133
Phone: (270) 745-4797, Fax: (270) 745-4437
Email: public.health@wku.edu
Website: www.wku.edu/publichealth

Professors: D. George, V. Golla, C. Watkins
Associate Professors: G. Ellis-Griffith, G. English, M. Gardner, J. Hunt-Shepherd, G. Lartey, G. Macy, W. Mkanta, R. Taylor
Assistant Professors: A. Alamri, X. Ding, C. Farrell, J. Hwang, G. Macy, M. Reece
Instructor I: J. Basham, P. Chandler, M. Eaton, J. Kim, D. Pope
Professor Emeritus: D. Dunn
Transitional Retiree: T. Nicholson, K. Sansom, D. Shearer

The Department of Public Health offers academic programs which prepare students for a wide variety of health careers. An important responsibility is to carry out applied research and other scholarly activities which provide opportunities for student engagement, maintain the academic strength of the faculty, expand knowledge in various fields, and improve health in the communities served The department also conducts service with multiple agencies, institutions, and organizations in the Commonwealth of Kentucky and across the nation. In addition, the department provides a service to the University's Colonnade program through instruction to improve the knowledge, attitudes and behaviors of students related to Colonnade goals.

Students may pursue one of several major or minor programs. Specialized programs prepare individuals for careers in public health, health care administration, environmental health and safety, occupational safety and health, health information management, health science and related areas.

All majors and minors are expected to work closely with their academic advisors in planning their courses of study. Special interests and abilities will be considered in planning the individual course of study. More information about the department is available at: http://www.wku.edu/publichealth.

Departmental Academic Regulations
Students who have completed a minimum of 30 semester hours, including the courses required for seeking admission status, with an overall GPA of 2.3 (an overall GPA of 2.5 for Health Care Administration majors), qualify for admission into a program in the Department of Public Health.

Students whose grade point average falls below 2.3 for two successive semesters will be dropped from the program. Students who receive a grade below a "C" in two or more courses required in a major or minor will be dropped from the program. A student may be reinstated in the program when the overall grade point average is elevated to at least 2.3 and all courses in which a grade of less than "C" has been earned have been repeated and a grade of "C" or better was earned. Students must have an overall grade point average of at least 2.5 before enrolling in the internship. Grades below "C" in major or minor courses will not be counted toward meeting graduation requirements.

Academic regulations for Health Information Management and Health Sciences majors are described subsequently with the full descriptions of the programs.

Internships/Off-Campus Experiences
Students may be required to undergo criminal background checks and drug testing, and to provide proof of health insurance, liability insurance, and/or immunization records prior to participating in any required experiences at selected off-campus facilities/agencies.

Additionally, there may be certifications, training seminars, or other requirements specified by the facility/agency that a student must meet in order to be eligible for field or practical experiences at the facility. It is the responsibility of the student to ensure that all institutional and/or facility requirements are met as a condition of participating in the off-campus experiences; students may be responsible in part or in full for any costs incurred to meet such requirements. Students are also responsible for transportation to and from off-campus experiences.

Major in Environmental Health Science

Program Coordinator: R. Taylor

Reference Number: 548P (seeking admission)
548 (officially admitted)
Minimum Hours for Major: 70

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/17-18/documents/chhs/environmental_health_sciences_548.pdf

The undergraduate degree program in Environmental Health Science prepares the graduating student for careers as an environmental health and safety professional with government agencies, environmental consulting firms, industries, local governments, and non-profit organizations. Courses in the program are focused on basic sciences, environmental science, occupational safety and health, and environmental health. By focusing on the application of basic scientific principles to the solution of environmental health and occupational safety and health challenges, students are prepared for diverse career opportunities. Required courses in the major include the following: ENV 120, ENV 221, ENV 280, ENV 321, ENV 323, ENV 360, ENV 365, ENV 380, ENV 410, ENV 411, ENV 460, ENV 474, ENV 480, ENV 486, ENV 490, ENV 491; PH 383, PH 384, PH 385, SFTY 270, and three hours of approved electives.

Students pursuing the Environmental Health Science curriculum must take the following: COMM 145; ECON 202, PSY 100/PSYS 100, BIOL 131, BIOL 207, BIOL 208; MATH 116, MATH 117; CHEM 105, CHEM 106, CHEM 107, CHEM 108; PHYS 231, PHYS 232; ENG 307; PH 100. Some of these required courses also fulfill the Colonnade subject area requirements.

All courses listed above require a minimum grade of "C."

Major in Health Care Administration

Program Coordinator: G. Ellis-Griffith

Reference Number: 559P (seeking admission)
559 (officially admitted)
Minimum Hours for Major:67

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path: http://wku.edu/degreepaths/17-18/documents/chhs/health_care_admin_559.pdf

The Health Care Administration program has full membership in the Association of University Programs in Health Administration (AUPHA).

The undergraduate degree program in health care administration prepares the student for administrative positions in various types of health care facilities and agencies, such as acute care, long term care, group medical practices, managed care organizations, health insurance agencies, public health agencies, clinics, and health related organizations such as manufacturing, marketing and consulting.

The required courses in the major are HCA 120, HCA 247 or PH 447 or PHIL 322 or PHIL 323 or MGT 305 or SWRK 433, HCA 340, HCA 342, HCA 343 or HCA 353, HCA 344, HCA 345, HCA 346 or HCA 355, HCA 347 or PH 410, ACCT 200 or HIM 252, HCA 383, HCA 440 or any 300 level or higher economics course, HCA 441 or MGT 200 or MGT 301 or HIM 225, HCA 442, HCA 445, HCA 446, HCA 447, HCA 448, HCA 449, FIN 330 or HCA 401, PH 383 or MATH 183 or SOCL 300, AH 290 or HIM 290, and two 3-hour HCA elective selected with permission of advisor. In addition to meeting the Colonnade requirements, students pursuing the health care administration curriculum must take the following: ECON 202 or ECON 203; BIOL 131, or PH 100 and PH 381 or PH 384. Some of these required courses fulfill Colonnade subject area requirements. Requirements for admission (reference number 559): 30 hours including the above courses with overall GPA of 2.5 or better.

All courses listed above require a minimum grade of "C" (both prerequisites and core courses).

Students will not be allowed to enroll in 400-level HCA classes until they are fully admitted into the HCA program.

Requirements for degree completion: 67 hours of program courses with an overall GPA of 2.5 or better.

Major in Health Information Management

Program Coordinator: J. Hunt-Shepherd

Reference Number: 529P (seeking admission)
529 (officially admitted)

Minimum Hours for Degree:120
Degree: Bachelor of Science

Minimum Hours for Major: 79-82

Sample Degree Path: http://wku.edu/degreepaths/18-19/documents/chhs/health_information_management_529.pdf

The Health Information Management bachelor degree program is accredited by Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)*. Graduates of the program are eligible to take the American Health Information Management Association's (AHIMA)** certification examination for the designation of Registered Health Information Administrator (RHIA).

The major in Health Information Management is designed to prepare the graduate HIM professional with skills and competencies in health data management, data analytics and informatics, information governance, privacy and security, compliance, clinical documentation improvement, revenue cycle management, medical coding, health information technology management and administrative and clinical work flow. Students will focus on operations management essential to ensuring an accurate and complete medical record and cost effective information processing.

Enrollment in the program is limited. A students' application to the baccalaureate degree program will be considered following successful completion of the introductory course, HIM 100: Health Data Content and Structure or following successful completion of an associate degree in HIM from a Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM*) accredited program or successful completion of the HIM 100 departmental examination.

Students are required to have professional liability insurance coverage prior to accessing health information and/or professional practice experience. In addition, students are required to submit a criminal background check, current immunization records and results of a current drug screen as part of the application process. Prior to participating in any professional practice experience (PPE) at selected health care institutions, there may be additional certifications, training seminars, or their requirements by the health care institution that a student must meet in order to be eligible for training at the chosen facility. It is the responsibility of the student to ensure that all institutional requirements are met prior to participation in the PPE. Students may be responsible in part of in full for any costs incurred to meet such requirements. Policies, standards and requirements should be obtained directly from the program office or at www.wku.edu/healthinformationmanagement.

This program requires a minimum of 120 hours and includes 79-82 hours for the HIM major; Colonnade courses must be completed in consultation with advisor HIM courses completed with a grade of "C" or higher for transfer students and graduates from CAHIIM Accredited programs will be accepted as substitutions for equivalent HIM courses. Transfer students and graduates from HIM programs in non-CAHIIM Accredited programs may provide evidence of mastery of course content through satisfactory completion of departmental examinations. Departmental examinations are available for the following courses: HIM 100, HIM 230, HIM 250, HIM 251, HIM 252, AH 290 / HIM 290, HIM 291, and HIM 292. Students not achieving a satisfactory score (70% or above) on the department examination(s) must complete the corresponding course(s). National specialty certifications and/or training may be considered as evidence of mastery of course content in specific courses.

The following courses are required for the major: HIM 100, HIM 225, HIM 230, HIM 250, HIM 251, HIM 252, AH 290 or HIM 290, HIM 291,HIM 292, HIM 330, HIM 350, HIM 351, HIM 421, HIM 422, HIM 430, HIM 450, HIM 495, HCA 340, PH 383, CSCI 145C or CIS 141, CIS 243 or CS 157, CIT 350 or BDAN 330, and 12 credit hours selected from the following: CIT 310, CIT 330, CIT 332, CIT 492, BDAN 310, BDAN 410, BDAN 420, BDAN 430, BIOL 131 must be completed prior to full admission to the program. A student who makes below "C" in any Health Information Management core course is required to repeat the course.

*CAHIIM, 233 North Michigan Avenue, 21st Floor, Chicago, IL 60601-5800. info@CAHIIM.org; www.cahiim.org

**AHIMA, 233 North Michigan Avenue, Suite 1250, Chicago, IL 60601-5800. (312) 233-1100; www.ahima.org

Major in Health Sciences

Program Coordinator: G. English

Reference Number: 564
Minimum Hours for Major: 59-66

Minimum Hours for Degree:120
Degree: Bachelor of Science

Sample Degree Path for Concentration:

Preparatory Health Sciences:
https://www.wku.edu/degreepaths/18-19/documents/chhs/health_sciences_prep_health_science_564.pdf
Health Sciences Allied Health:
https://www.wku.edu/degreepaths/18-19/documents/chhs/health_sciences_allied_health_564.pdf
Health Services Leadership & Management:
https://www.wku.edu/degreepaths/18-19/documents/chhs/health_sciences_health_svc_leadership_564.pdf

The major in Health Sciences, requires 59-66 health sciences credit hours, including a required concentration ranging from 21-27 hours. The Bachelor of Science in Health Sciences is designed for students who are interested in pursuing a health and human services related career. The program is an interdisciplinary program with three primary purposes:

1. Allowing students with a general interest in Health Sciences to pursue a B.S. while obtaining a concentration in a specific area of Health and Human Services.
2. Permitting students to prepare for post-graduate or professional health sciences programs.
3. Providing an option for students with a health-related associate's degree who wish to continue their education.

Students pursuing the major are required to select one of the following concentrations: Preparatory Health Sciences, Health Services Leadership and Management, or an Associate's Degree in a health field (approved by the health science advisor) for the Health Sciences Allied Health concentration. Students who transfer to WKU with an applied associate degree (e.g., Associate of Applied Science) from a health-related program receive a 12-hour waiver from the overall upper-level course requirement for the health science major. Students who transfer to WKU with an applied associate degree from a health-related program will need 23 hours in the major upper-division hour requirement. WKU Associate Degreed students do not receive waivers in upper-division hour requirements for the major or degree.

Required courses for the Health Sciences core are: HMD 211; PSY 100/PSYS 100 or PSY 220/PSYS 220; BIOL 113 or BIOL 120/BIOL 121 or BIOL 131; CHEM 105/CHEM 106 or CHEM 109 or CHEM 116, or PHYS course; AH 290 or HIM 290; PE 310 or PE 311 or PE 313 or PH 390; PH 381; PH 383 or SOCL 300 or BIOL 382 or STAT 301 or PSY 313/PSYS 313 or MATH 183; PH 384; PH 447 or PHIL 322 or PHIL 323 or MGT 305 or SWRK 433 or LEAD 330; HCA 340; HCA 446/HCA 447 or CIS 243 or CIS 321; HCA 441 or HIM 225 or MGT 200 or MGT 301.

One of the below-mentioned concentrations is required:

- **Preparatory Health Sciences** – (24-27 hours): Choose any of the following courses:
  - *Biology*: BIOL 120*/BIOL 121*, BIOL 122/BIOL 123, BIOL 131*, BIOL 207/BIOL 208, BIOL 224/BIOL 225, BIOL 231, BIOL 344
  - *Chemistry*: CHEM 107/CHEM 108, CHEM 116, CHEM 120/CHEM 121, CHEM 222/CHEM 223, CHEM 304, CHEM 340/CHEM 341, CHEM 342/CHEM 343
  - *Health Information Management*: HIM 291, HIM 292
  - *Hospitality Management and Dietetics*: HMD 360, HMD 361
  - *Math*: MATH 117, MATH 136
  - *Psychological Sciences*: PSYS 160
  - *Public Health:* PH 365, PH 464, PH 468
  - *Physics*: PHYS 201*, PHYS 202*, PHYS 231*/PHYS 232*, PHYS 233*/PHYS 332*, PHYS 255*/PHYS 256*. (* unduplicated).
- **Health Services Leadership & Management** – (24-27 hours): Please choose any of the following courses:
  - *Biology:* BIOL 344
  - *Counselor Education:* CNS 110, CNS 432
  - *Communication:* COMM 348, COMM 440, COMM 450,
  - *Exercise Science:* EXS 455
  - *Family and Consumer Sciences:* FACS 310, FACS 311, FACS 395, FACS 491, FACS 497
  - *Finance:* FIN 161
  - *Gerontology:* GERO 100, GERO 461
  - *Health Care Administration:* HCA 345, HCA 347, HCA 353, HCA 446/HCA 447
  - *Health Information Management:* HIM 100, HIM 252, HIM 291, HIM 292
  - *Hospitality Management and Dietetics:* HMD 360, HMD 367, HMD 368

- *Interdisciplinary Studies:* IDST 369, IDST 390, ISDT 395
- *Leadership:* LEAD 200, LEAD 300, LEAD 325, LEAD 330*
- *Management:* MGT 200*, MGT 301*, MGT 305*, MGT 333
- *Public Health:* PH 100, PH 165, PH 261, PH 365, PH 410, PH 443, PH 444, PH 464, PH 467, PH 468
- *Psychological Sciences:* PSYS 333, PSYS 423
- *Sociology:* SOCL 342, SOCL 440
- *Special Education:* SPED 200
- *Social Work:* SWRK 101, SWRK 205, SWRK 330, SWRK 326, SWRK 357, SWRK 375, SWRK 395, SWRK 437. (*unduplicated)
- Other courses with advisor approval.

- **Health Sciences Allied Health** – (Health Related A.S./A.A./A.A.S. to Health Sciences Allied Health B.S. Concentration). An associate's degree in a focused health area may fulfill the concentration requirement with the approval of a Health Sciences academic advisor. Students with a completed A.A. or A.S. degree from a KCTCS college will be considered to have completed the WKU Colonnade general education requirements. All other students need to meet with an advisor. In addition to completing the Health Sciences core, students need to fulfill all other appropriate major and degree requirements.

Students must earn a "C" or better in each course in the major. Additionally, in accordance with university policy, an overall grade point average of 2.0 or better must be attained upon completion of required curriculum.

Major in Public Health

Program Coordinator: G. Lartey

Reference Number: 521P (seeking admission)
521 (officially admitted)
Minimum Hours for Major: 70

Minimum Hours for Degree: 120
Degree: Bachelor of Science

Sample Degree Path:
Public Health: https://www.wku.edu/degreepaths/18-19/documents/chhs/public_health_521.pdf

The program in public health consists of a core of 58 credit hours of coursework and 12 hours of electives for a total of 70 hours in the major.

Core Requirements (58 hours)
Required courses in the core are: BIOL 131, BIOL 207 & BIOL 208; CHEM 109; MATH 109 or MATH 115 or higher; PH 100, SFTY 171, PH 261, PH 381, PH 383, PH 384, PH 385, PH 483, PH 490; PSY 100/PSYS 100 or PSY 220/PSYS 220 or SOCL 100; COMM 145, ENV 460, PH 484, and PH 485.

Requirements for Seeking Admission (reference number 521P): 24 hours including COMM 145, PH 100 and PSY 100/PSYS 100 or PSY/PSYS 220 or SOCL 100; with an overall GPA of 2.0 or better.

Requirements for Admission (reference number 521): 30 hours including the above courses plus BIOL 131 and CHEM 109 with an overall GPA of 2.3 or better.

Electives: An additional 12 hours must be selected with advisor approval. Six of these hours have to be upper division. Student may choose from the following courses: BIOL 315, CHEM 314, CHEM 330, ENV 280, ENV 321, ENV 323, ENV 360, ENV 365, ENV 375, ENV 380, ENV 410, ENV 411, ENV 430, ENV 474, ENV 480, ENV 490, GEOG 310, AH 290 or HIM 290, SFTY 270, HMD 211, HCA 340, HCA 347, HCA 459, LEAD 200, LEAD 300, LEAD 325, LEAD 330, PH 365, PH 382, PH 390, PH 402, PH 443, PH 444, PH 447, PH 456, PH 464, PH 467, PH 468, PS 338, SOCL 260, SOCL 270, SOCL 350, SOCL 360, SOCL 362, SOCL 375, SOCL 376, SOCL 260, STAT 330, SWRK 101.

Minor in Environmental Health

Reference Number: 373
Minimum Hours for Minor: 27

This 27 credit hour minor will prepare students and assist them to acquire public health protection skills for program design, implementation and the evaluation of policies and practices to assist in preventing or reducing environmental hazards on individuals and communities.

The required courses include PH 280 or ENV 280; PH 385, ENV 360, ENV 380, ENV 410, ENV 460, ENV 480 and 6 hours of upper division ENV courses. Students must have a minimum GPA of 2.3 to be eligible for this minor. All courses in the minor must be completed with a minimum grade of "C". Some required courses may have pre-requisites that help fulfill Colonnade requirements. These pre-requisites include CHEM 105/CHEM 106, CHEM 107/CHEM 108, and MATH 118 or higher.

Minor in Global Health Service

Reference Number: 382
Minimum Hours for Minor: 18

Students in various disciplines, such as health administration, public health, social work, environment health, anthropology, and nursing, may use the minor to augment their majors with courses that cover skills for analyzing important global trends in health, and provide knowledge and understanding of diversity in culture and health issues. The minor provides students with fieldwork experience in a global context. The minor requires 18 hours, including 15 hours of core coursework and a 3-hour elective. Students are required to take the following 15 hours: HCA 347, PH 381, PH 385, PH 462 or FLK 462, and HCA 459. A 3-hour elective should be chosen from the following courses: ANTH 341/FLK 341, ANTH 342/FLK 342, ANTH 345/FLK 345, ANTH350/FLK 350, ANTH 382, FLK 280 (or FOLK 280C), GEOG 455, PH 384, SOCL 440.

Minor in Health Education

Reference Number: 389
Minimum Hours for Minor: 23

The minor in Health Education requires a minimum of 23 semester hours. This minor provides a basic foundation for students desiring preparation in health promotion and disease prevention. The minor in health education may be used in combination with many majors to enhance student's career opportunities and as preparation for graduate study in a variety of health disciplines. Completion of the minor along with a teaching certifiable major leads to certification in health education. Required courses are BIOL 131; SFTY 171; PH 261, PH 365, PH 381, PH 461, and PH 467. Three credit hours of electives must be selected from the following courses with approval of the academic advisor: PH 385, PH 456, PH 463, PH 465, or HMD 211.

Students utilizing the minor in health education for teacher certification must complete SEC 483, Teaching Health, as a required support course. All courses in the minor must be completed with a minimum grade of "C."

Minor in Health Education and Promotion

Reference Number: 387
Minimum Hours for Minor: 27

This 27 credit hour minor is designed to improve students' skills in program design, implementation and evaluation in diverse settings. Graduates from the program may pursue employment opportunities community/public health educators, employee wellness managers, health coaches and community health workers. Students must have a minimum GPA of 2.3 to be eligible for this minor. All courses in the minor must be completed with a minimum grade of "C".

The required courses are PH 100, PH 261, PH 383, PH 384, PH 390, PH 402, PH 483, PH 484 and PH 485. Some required courses may have perquisites that help fulfill Colonnade requirements. These prerequisites include BIOL 131, HMD 211 and CPR certification.

Minor in Health Care Administration

Reference Number: 386
Minimum Hours for Minor: 23

The minor in Health Care Administration requires a minimum of 23 semester hours. This minor is compatible with various majors such as business, social and behavioral sciences, allied health, nursing, communication, journalism, public health, and etc.

Requirements are HCA 340, HCA 344, HCA 440, HCA 441, and HCA 442; AH 290; and HCA 345 or HCA 346; and PH 447. In addition, students must complete MGT 210 and ECON 202, as prerequisites to the above required courses. All courses in the minor (including MGT 210 and ECON 202) must be completed with a minimum grade of "C." Students pursuing this minor must have approval from a health care administration advisor.

Minor in Occupational Safety and Health

Reference Number: 427
Minimum Hours for Minor: 24

The minor in Occupational Safety and Health requires a minimum of 24 semester hours. Requirements are ENV 120, ENV 221, ENV 321, ENV 322, and ENV 423 and 9 hours of ENV upper-division electives. In addition, the student must complete supporting courses as follows: SFTY 171, CHEM 109, and ENG 307.

Minor in Environmental Studies and Sustainability

(See Environmental Studies and Sustainability in the Department of Geography and Geology.)

Minor in Worksite Health Promotion

Reference Number: 495
Minimum Hours for Minor: 18

The minor in Worksite Health Promotion requires a minimum of 18 semester hours. The minor will enable students to merge worksite health promotion with physical education, nutrition, health education or business management courses in their professional preparation. Required courses are: ENV 120; PH 261, PH 381, PH 390, PH 402; PE 100. All courses in the minor must be completed with a minimum grade of a "C."

Associate Degree in Health Information Management (A.S.)

Program Coordinator:
J. Hunt- Shepherd

Reference Number: 243P (seeking admission)
243 (officially admitted)

Minimum Hours for Degree: 62
Degree: Associate of Science

The Health Information Management associate degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)*. The program is not accepting new students for admission at this time. Please contact the Department of Public Health for additional information. Graduates of the program are eligible to apply to take the American Health Information Management Association's (AHIMA)** certification examination for the designation of Registered Health Information Technician (RHIT). The health information technician is the professional responsible for maintaining components of health information systems consistent with the medical, administrative, ethical, legal, accreditation, and regulatory requirements of the health care delivery system. In all types of facilities, and in various locations within a facility, the health information technician possesses the technical knowledge and skills necessary to process, maintain, compile, and report health information data for reimbursement, facility planning, marketing, risk management, utilization management, quality assessment and research; abstract and code clinical data using appropriate classification systems; and analyze health records according to standards. The health information technician may be responsible for functional supervision of the various components of the health information system.

Enrollment in the program is limited. A student's application to the associate degree program will be considered following successful completion of the introductory course, HIM 100: Health Data Content and Structure.

Students are required to have professional liability insurance coverage during their program of study. In addition, students are required to submit criminal background check, current immunization records and results of a current drug screen as part of the application process. Prior to participating in any professional practice experience (PPE) at selected health care institutions, there may be additional certifications, training seminars, or other requirements that a student must meet in order to be eligible for training at the chosen facility. It is the responsibility of the student to ensure that all institutional requirements are met prior to participation in the PPE.

Students may be responsible in part or in full for any costs incurred to meet such requirements. Rules, standards and requirements should be obtained directly from the program office or at www.wku.edu/healthinformationmanagement.

A student who makes below a "C" in any Health Information Management core course is required to repeat the course. The associate degree in Health Information Management requires a minimum of 62 semester hours and leads to an Associate of Science degree.

Students must take the following general education courses: ENG 100, MATH 109 or MATH 116, BIOL 131, a three-hour Colonnade Arts and Humanities (AH) course, and six hours of Colonnade Social and Behavioral (SB) courses. The following HIM curriculum courses are required AH/HIM courses: AH 290 or HIM 290, HIM 100, HIM 220, HIM 221, HIM 225, HIM 230, HIM 250, HIM 251, HIM 252, HIM 291, HIM 292, and HIM 295.

Students must also select a restricted elective from the following courses: CIS 243, INS 272C or CS 157. In addition, students must take CSCI 145C or CIS 141.

*CAHIIM, 233 North Michigan Avenue, 21st Floor, Chicago, IL 60601-5800. info@CAHIIM.org; www.cahiim.org

** AHIMA, 233 North Michigan Avenue, Suite 2150. Chicago, IL 60601-5800. (312) 233-1100; www.ahima.org

Environmental Health Certificate

Program Coordinator: G. Lartey

Reference Number: 1743
Minimum Hours for Certificate: 21

This 21 credit hour certificate program will equip graduates with public health protection skills for program design, implementation and the evaluation of policies and practices to assist in preventing or deducting environmental hazards on individuals and communities.

The required courses are: PH 280 or ENV 280; PH 385, ENV 360, ENV 380, ENV 410, ENV 460 and ENV 480. Some required courses may have pre-requisites that help fulfill Colonnade requirements. These prerequisites include CHEM 105/CHEM 106, CHEM 107/CHEM 108 and MATH 118 or higher.

Health Education and Promotion Certificate

Program Coordinator: G. Lartey

Reference Number: 1741
Minimum Hours for Certificate: 21

This 21 credit hour certificate program is designed to improve students' skills in program design, implementation and evaluation in diverse settings.

The required courses are: PH 383, PH 384, PH 390, PH 402, PH 483, PH 484 and PH 485. Some required courses have prerequisites that help fulfill Colonnade requirements. These prerequisites include BIOL 131, HMD 211, MATH 109 or MATH 115 or higher and CPR certification.

Health Informatics Certificate

Program Coordinator: J. Hunt- Shepherd

Reference Number: 1740
Minimum Hours for Certificate: 19-22

The certificate in Health Informatics is multidisciplinary and is designed to prepare health profession students with the introductory skills and knowledge needed for electronic health records usability, interoperability and data exchange, meeting meaningful use initiatives, improving clinical workflow, and analyzing data to improve overall health care delivery and outcomes through the use of health information technology.

Courses for the certificate may also meet the requirements for other degree programs. This certificate may be completed with 19-22 credit hours. The follow core courses are required (18 hours): CSCI 145C or CIS 141, CS 157, CIS 243, BDAN 330 or CIT 350, HIM 330, HIM 430. The student must choose between 1 – 4 credit hours from the following courses (Must be completed prior to HIM 330): HIM 100, DH 100, SWRK 205, CD 280, HCA 340, or other health care introductory class as approved by Health Informatics Certificate Advisor.

Long-Term Care Administration Certificate

Program Coordinator: M. Eaton

Reference Number: 1717
Minimum Hours for Certificate: 15

The Long-Term Care Administration certificate, which is accredited through the National Association of Long Term Care Administrators Board (NAB), requires 15 semester hours. The certificate in conjunction with the undergraduate degree program in health care administration prepares students for careers in both long-term care administration and other adult care services. It follows a cohort model with students being enrolled every fall term. This certificate requires the following courses: HCA 345, HCA 355, HCA 353, GERO 100, and PH 443.

Occupational Safety & Health Certificate

Program Coordinator: R. Taylor

Reference Number: 1705
Minimum Hours for Certificate: 15

The certificate program in Occupational Safety & Health requires 15 hours and is designed to provide training for careers focused on the protection of human health from occupational hazards in the built and natural environments.

Courses will require application of basic Occupational Safety and Health Administration (OSHA) principles and challenges, which will prepare students for diverse opportunities in safety and health, environmental health and safety with industry, government agencies, consulting firms and businesses. The required courses are: ENV 120, ENV 221, ENV 321, ENV 322, and ENV 423.

Public Health Certificate

Program Coordinator: G. Lartey

Reference Number: 1742
Minimum Hours for Certificate: 18

This 18 credit hour certificate program is designed to provide core public health concepts and skills to students and professionals in the public health field and other health-related areas. This program will also increase students' knowledge and skills in public health competencies.

The required courses are PH 100, PH 381, PH 383, PH 384, PH 385 and PH 483. Some required courses may have pre-requisites that help fulfill Colonnade requirements. These pre-requisites include MATH 109 or MATH 115 or higher, 3 hours of CHEM and 3 hours of BIOL.

Worksite Health Promotion Certificate

Program Coordinator: C. Watkins

Reference Number: 1707
Minimum Hours for Certificate: 18

The certificate program in Worksite Health Promotion requires 18 semester hours and is designed to provide training for students and professionals who have an interest in developing worksite health promotion programs in the private sector. This certificate program will provide a comprehensive skill base for assessment, planning, implementation and evaluation of health promotion programs in a worksite environment. The required courses are PE 100, ENV 120, HMD 211, PH 100, PH 261, and PH 402.

Graduate Programs − The department offers a Master of Public Health, Master of Health Administration, and Master of Science in Environmental and Occupational Health Science, as well as graduate certificated in Advanced Worksite Health Promotion, Environmental Health and Safety, and Global Health Administration. The Master of Arts in Education with a minor in health education is also available. For additional information see www.wku.edu/graduate or contact the department.

Department of Social Work

Dr. Patricia Desrosiers, Head

Academic Complex, Office 211
Phone: 270-745-5312; Fax: 270-745-6841
Website: www.wku.edu/socialwork

Professor: J. D. May, J. Gabbard, S. Starks
Associate Professors: A. Cappiccie, P. Desrosiers, G. Mallinger, L. Owens, D. Sullivan
Assistant Professors: S. Funge, A. Griffiths, W. Harper, A. Murphy, W. Harper
Instructor I: A. Gibson, K. McIntyre
Transitional Retirees: V. Hurt, J. Peeler

The undergraduate social work program is fully accredited by the Council on Social Work Education.

The social work profession grew out of societal concerns about individual and social problems associated with the distribution of resources and opportunities. Today's social workers address social issues related to stresses on individuals, families, groups, organizations and communities. As professionals, social workers give their attention to inequities in the distribution of resources and opportunities and other factors interfering with persons' ability to reach their full potential.

The undergraduate social work program depends on a strong liberal arts base and a generalist practice foundation to achieve its mission and goals. The mission of the BSW program at WKU is to prepare culturally competent social workers for practice with diverse communities and client systems.

The program promotes a commitment to professional ethics, leadership, professionalism, social justice, and lifelong learning in order for graduates to practice effectively in a global community. For more information regarding the BSW program and its goals, please visit the departmental webpage: http://www.wku.edu/socialwork/bsw.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information."

Specific attention should be given to the subsections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations. Students should be aware that some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department or visit the departmental webpage.

Students may be required to undergo criminal background checks and drug testing and to provide proof of health insurance, liability insurance, and/or immunization records prior to participating in any required experiences at selected off-campus facilities/agencies. Additionally, there may be certifications, training seminars, or other requirements specified by the facility/agency that a student must meet in order to be eligible for field or practical experiences at the facility. It is the responsibility of the student to ensure that all institutional and/or facility requirements are met as a condition of participating in the off-campus experiences; students may be responsible in part or in full for any costs incurred to meet such requirements. Students are also responsible for transportation to and from off-campus experiences.

Major in Social Work

Program Coordinator: S. Funge

Reference Number: 594P (seeking admission)
594 (officially admitted)
Minimum Hours for Major: 54

Minimum Hours for Degree:120
Degree: Bachelor of Social Work

Sample Degree Path: http://wku.edu/degreepaths/17-18/documents/chhs/social_work_594.pdf

The social work major consists of 54 semester hours, 45 hours in social work and 9 hours in supportive courses. It is not necessary to have a minor for graduation.

Consistent with the program's emphasis on a liberal arts foundation, during the freshman and sophomore years, students will take courses in English, political science, economics, math, biology, sociology, psychology, and also public speaking and history. These courses will also fulfill several of the Colonnade requirements. A list of the required liberal arts and sciences courses that must be taken as prerequisites for applying to the social work major is available on the departmental webpage or can be obtained from the department.

Requirements for the social work major are: 45 semester hours in social work - SWRK 101, SWRK 205, SWRK 330, SWRK 331, SWRK 345, SWRK 357, SWRK 375, SWRK 378, SWRK 379, SWRK 381, SWRK 395, SWRK 480, SWRK 481, SWRK 482, SWRK 483, and a minimum of nine hours of electives approved by the advisor. Three hours of the electives must be in social work. Social work elective options are SWRK 270, SWRK 300, SWRK 325, SWRK 326, SWRK 356, SWRK 433, SWRK 436, SWRK 437, SWRK 450, SWRK 451, SWRK 485, SWRK 490, SWRK 495, SWRK 496. The other six hours of electives should be chosen in consultation with advisor.

Admission to the major: The academic advisor reviews the student's academic status. If necessary, students are advised to fulfill prerequisites for admission to the program. Upon completion of prerequisite courses, including SWRK 101 and 205, students must complete an application process for formal admission to the social work program. The BSW Admissions and Retention Committee reviews each application. Students must have attained a cumulative grade point average of 2.5 and sophomore status in order to be admitted. Guidelines for admission and retention are stated in the BSW Student Handbook, which is available in the departmental office or on the departmental webpage. The following 27 hours are required for admission: SWRK 101, SWRK 205, ENG 100, MATH 183 or SWRK 344 or SOCL 300 or PSY 313/PSYS 313 or PH 383, PS 110, ECON 150 or ECON 202 or ECON 203, PSY 100/PSYS 100 or PSY 220/PSYS 220, SOCL 100 or AGRI 108, BIOL 113 or BIOL 120 or BIOL 131.

Minor in Social Work

Reference Number: 459
Minimum Hours for Minor: 21

The Social Work minor consists of 21 semester hours. Required courses are SWRK 101, SWRK 205, SWRK 330, SWRK 331, and select one of the following courses: SWRK 344, SWRK 345, or SWRK 395. Students are also required to take two social work electives in consultation with their social work advisor. Only the major prepares the student for beginning professional social work practice. Social work practice courses and the social work practicum are not available to minors.

Graduate Program − The Department of Social Work offers the Master of Social Work (MSW). For additional information, see www.wku.edu/graduate or contact the department.

Course Descriptions

The following is a guide to using WKU's course descriptions.

Course Fees – Enrollment in some courses requires payment of an additional fee. Refer to www.wku.edu/bursar for specific course fees.

Course Numbering System

50-99 Developmental courses; grades earned in these courses will not count toward the student's GPA, but may be considered in making university business decisions. Hours earned in these courses are not degree applicable.

100-299 Primarily for freshmen and sophomores; such courses generally contain introductory, elementary or basic level content.

300-499 Primarily for juniors and seniors; courses contain advanced undergraduate level content.

400G-499G Graduate courses, open only to graduate students unless exception approved.

Credit Hours – The number of credit hours is displayed in parentheses after the course title.

Equivalent courses – Equivalent courses have different subject area prefixes but the same course number, title, abbreviated title, credit hours, prerequisites and / or corequisites, grade type (e.g., A – F, Pass / Fail) and catalog course listings.

Prerequisite – A prerequisite represents prior specific or general academic knowledge, background, or student classification required in order to enroll in a specific course.

Corequisite – A corequisite is a requirement which must be fulfilled concurrently with another course, unless successfully completed as a prerequisite.

Statewide General Education Codes

AH	Arts and Humanities
GE	General Elective
NS	Natural Sciences
OC	Oral Communication
QR	Quantitative Reasoning
SB	Social and Behavioral Sciences
SL	Science Lab
WC	Written Communication

Statewide Developmental Codes

DE	Developmental English
DM	**Developmental Mathematics**
DR	**Developmental Reading**

WKU Colonnade Codes (General Education)
(Refer to the Colonnade section for more details.)

F-W1	Foundations: College Composition
F-W2	Foundations: Writing in the Disciplines
F-OC	Foundations: Human Communication
F-QR	Foundations: Quantitative Reasoning
F-AH	Foundations: Literary Studies
F-SB	Foundations: World History
E-AH	Explorations: Arts & Humanities
E-SB	Explorations: Social & Behavioral Sciences
E-NS	Explorations: Natural & Physical Sciences
E-SL	Explorations: Science Lab
K-SC	Connections: Social & Cultural
K-LG	Connections: Local to Global
K-SY	Connections: Systems

ACC– Accounting
School of Professional Studies

ACC 200C. INTRODUCTORY ACCOUNTING-FINANCIAL. (3)
See ACCT 200.

ACC 201C. INTRODUCTORY ACCOUNTING-MANAGERIAL. (3)
See ACCT 201.

ACCT – Accounting
Department of Accounting

ACCT 200. INTRODUCTORY ACCOUNTING—FINANCIAL. (3) *Prerequisite: MATH 109 or higher.* Introduction to the basic accounting theories, concepts and principles used in gathering and reporting financial data of a business organization. Course focuses on the information provided to external users through financial statements. Emphasis is placed on preparing the statements, examining the statements' components, and interpreting the information reported. ***Course Fee***

ACCT 201. INTRODUCTORY ACCOUNTING-MANAGERIAL. (3) *Prerequisite: ACCT 200 or equivalent.* Introduces accounting concepts, practices, and tools for managerial decision making. This course is designed to provide an understanding of how financial and non-financial data are used in decision making and control. Topics typically include activity-based costing, cost behavior, job-order costing, process costing, cost-volume-profit analysis, flexible budgeting, relevancy costing, departmental cost allocation, and profit planning. ***Course Fee***

ACCT 300. INTERMEDIATE FINANCIAL ACCOUNTING I. (3) *Prerequisites: ACCT 200 with a grade of "B" or higher.* A review of the financial accounting concepts, relationships, and procedures involved with preparing and interpreting financial statements. Includes an in-depth coverage of the valuation, measurement, and financial reporting issues associated with assets and liabilities. ***Course Fee***

ACCT 301. INTERMEDIATE FINANCIAL ACCOUNTING II. (3) *Prerequisites: ACCT 201 with a grade of "B" or higher and ACCT 300 with a grade of "C" or higher.* A continuation of Intermediate Financial Accounting I with emphasis placed on certain specialized accounting subjects. Topics typically covered include, but are not limited to, long-term tangible and intangible assets, current and long-term liabilities, stockholders' equity, potentially dilutive securities and EPS. ***Course Fee***

ACCT 303. INTERMEDIATE FINANCIAL ACCOUNTING III. (3) *Prerequisite: ACCT 301 with a grade of "C" or higher.* A continuation of Intermediate Financial Accounting II with emphasis placed on specialized accounting subjects. Topics typically covered include, but are not limited to, investments, revenue recognition, pensions, leases, accounting changes and error analysis, the statement of cash flows, and accounting for income taxes. ***Course Fee***

ACCT 310. MANAGERIAL COST ACCOUNTING. (3) *Prerequisites: A grade of "B" or higher in both ACCT 200 and ACCT 201.* An in-depth study of cost accounting practices, including job order, process, normal, activity-based, and standard costing. Also examines accounting tools such as budgeting, cost-volume-profit analysis, relevant costing, and responsibility accounting that provide organizational managers with information for planning, decision-making, and control. ***Course Fee***

ACCT 312. ACCOUNTING INFORMATION SYSTEMS. (3) *Prerequisites: ACCT 300 and ACCT 310 with grades of "C" or better in both courses; CIS 243.* A study of accounting information systems, traditional and contemporary, with hands-on experience with a manual accounting system and a computerized accounting system. Emphasis is on the transformation of data to information and the internal controls necessary in each environment. ***Course Fee***

ACCT 330. TAX PLANNING FOR INVESTMENTS. (3) *For non-accounting majors - may not be taken by accounting majors. Prerequisite: FIN 330.* An explanation of the federal income tax structure and the role taxes play in decision making. The tax effects on personal investments and the tax factors in personal financial planning are given special emphasis. ***Course Fee***

ACCT 390. INTERNSHIP IN ACCOUNTING. (3) *Prerequisites: ACCT 300 or equivalent, a minimum of six hours of upper-level accounting courses at WKU, a 2.75 GPA overall, a 2.5 GPA in upper-level accounting courses, and permission of the Chair of Accounting.* Relevant and meaningful full-time accounting-related work experience outside the classroom in a supervised setting with a cooperating business or not-for-profit organization. (Grading: Pass / Fail) ***Course Fee***

ACCT 401. BUSINESS COMBINATIONS AND RELATED TOPICS. (3) *Prerequisite: ACCT 303 with a grade of "C" or higher.* Emphasis is placed on the issues involved in business combinations, including the preparation of consolidated financial statements. Other topics typically covered include partnerships, interim and segment reporting, international accounting, and foreign currency transactions and translations. ***Course Fee***

ACCT 402. CONTEMPORARY ACCOUNTING ISSUES. (3) *Prerequisites: ACCT 303 and ACCT 310 with grades of "C" or higher.* A study of contemporary problems in financial accounting. Emphasis placed on the study and evaluation of pronouncements of various organizations concerned with the development of accounting principles and practices. Helps broaden the student's concept and understanding of accounting into a meaningful discipline. ***Course Fee***

ACCT 420. GOVERNMENTAL AND NOT FOR PROFIT ACCOUNTING. (3) *Prerequisite: ACCT 301 with a grade of "C" or better.* Provides a broad understanding of fund accounting and financial reporting for various types of governmental and not for profit organizations. Examines the similarities and differences among the fund structures and financial reporting requirement of the two categories of organizations. Types of organizations typically studied include: all governmental organizations, health care organizations, colleges and universities, and voluntary health and welfare organizations. ***Course Fee***

ACCT 430. FEDERAL TAXATION – INDIVIDUALS. (3) *Prerequisites: ACCT 301 with a grade of "C" or better*. Provides a comprehensive explanation of the federal tax structure. Primary emphasis is placed on the federal income tax as it applies to individuals. Provides the student with an opportunity to apply tax principles to specific problems. ***Course Fee***

ACCT 431. FEDERAL TAXATION – BUSINESS ENTITIES. (3) *Prerequisite: ACCT 430 with a grade of "C" or better.* Furthers the student's understanding and knowledge of the federal income tax structure as it applies to partnerships and corporations. Other specialized areas of taxation are also covered. Emphasis is placed on the use of tax services in researching tax problems. ***Course Fee***

ACCT 440. BUSINESS LAW FOR THE ACCOUNTING PROFESSIONAL. (3) *Prerequisites: MGT 200 and ACCT 402 (or concurrently) or ACCT 450 (or concurrently).* Contracts, Uniform Commercial Code, sales, debtor-creditor relationships, security regulation, property, estates, and trusts and other topics pertinent to the legal portion of the CPA Examination are covered. ***Course Fee***

ACCT 450. AUDITING AND ASSURANCE SERVICES. (3) *Prerequisites: ACCT 303 and ACCT 312 with a grade of "C" or better, and senior standing*. Emphasizes the work of public accountants. Topics covered include auditing standards, professional ethics, legal liabilities, auditing objectives and procedures, preparation of audit working papers, reporting considerations when rendering an opinion on financial statements, and other services provided by accountants. Internal auditing, including the concepts of operational and compliance auditing, are also considered. ***Course Fee***

ACCT 460. CPA PROBLEMS. (3) *Prerequisites: ACCT 402 (or concurrent) with a grade of "C" or better.* Designed to assist the student in preparing for the uniform CPA examination. Passing this examination is one of the requirements for becoming a certified public accountant. ***Course Fee***

ACCT 470. SENIOR SEMINAR IN ACCOUNTING. (1-3) *Prerequisite: Senior standing.* Investigation into current accounting developments. The course is designed to give seniors an opportunity for in-depth study of important accounting developments. ***Course Fee***

ACCT 499. SENIOR ASSESSMENT IN ACCOUNTING. (1) *Prerequisites: Senior standing, enrolled in last regular semester of coursework. (Summer graduates would take this course in the spring semester prior to completion.)* This course is designed to be a tool in the senior assessment process. It is designed to provide a means of conducting assessment of accounting majors. The course will seek to measure knowledge of basic accounting ideas and concepts. Students will also be introduced to the professional certification programs and career opportunities available in the accounting profession. Required for all accounting majors. ***Course Fee***

ACMS
CAROL MARTIN GATTON ACADEMY OF MATHEMATICS AND SCIENCE

ACMS 175. ACADEMY SEMINAR EXPERIENCE. (1) Restricted to Gatton Academy students. Taken during the first three semesters for Gatton Academy students. Addresses study skills, leadership, social and emotional intelligence, and critical thinking skills. May be repeated up to three hours credit.

AD – ADVERTISING
DEPARTMENT OF COMMUNICATION

AD 210. SOFTWARE STUDIO FOR DESIGNERS. (3) An introduction to the industry standard software to edit photos, create logos/branding packages, illustrations and layouts for print and interactive media. Equivalent to SJB 210. ***Course Fee***

AD 240. ADVERTISING IN A DIGITAL WORLD. (3) Theory and practice of incorporating new technology into advertising campaigns. Emphasis on advertising strategy development utilizing interactive technology and computer presentation skills. ***Course Fee***

AD 300. RESEARCH IN ADVERTISING AND PUBLIC RELATIONS. (3) *Prerequisites: AD 240 or COMM 200 or PR 255, or instructor permission; and MATH 109 or higher.* Prepares students to perform and supervise preliminary research in advertising and public relations environments. Includes consumer analysis, media tracking, attitude measurement, copy testing, online research and evaluation of externally supplied research.

AD 310. VISUAL CONCEPTS IN ADVERTISING. (3) *Prerequisites: SJB / AD 210 and AD 240, or permission of instructor. Analyze, create, and organize visual elements of persuasive and sponsored messages across media, targeting specific audiences for measurable impact.*

AD 330. BRANDING. (3) *Prerequisite: AD 300 or COMM 300 or PS 301 or SOCL 302 with a grade of "C" or better or instructor permission*. Process of creating and projecting a distinctively authentic personality for a business. Covers traditional and digital methods of branding, with a focus on user experience.

AD 349. ADVERTISING MEDIA. (3) *Prerequisite: AD 300 or COMM 300 or PS 301 or SOCL 302 or instructor permission.* Study and evaluation of principal advertising media, including newspapers, magazines, trade publications, radio, television and outdoor. Includes consideration of media and audiences, media rates, budgeting, negotiating, scheduling and evaluations.

AD 400. SPECIAL TOPICS IN ADVERTISING. (3) *Prerequisites: Sophomore standing and COMM 200 or ENG 300, with a grade of "C" or better or instructor permission.* Various advertising topics not covered elsewhere in the curriculum. Repeatable once for a total of six hours.

AD 410. PORTFOLIO. (3) *Prerequisite: Permission of instructor. For Advertising majors only.* Students collaborate to research, create and promote websites and/or applications for commercial and non-commercial projects. Synthesizes all elements of user-experience design and branding. Equivalent to UX 410. ***Course Fee***

AD 415. STUDY ABROAD IN ADVERTISING. (3) Advertising and culture in international and cross-cultural locations. Repeatable once for a total of 6 hours.

AD 489. ADVERTISING INTERNSHIP OR PRACTICUM. (3) *Prerequisites: 18 hours in the major and permission of instructor. For program majors only.* Professional-quality experience outside or inside the University for a fixed period of tie. Follow-up with consist student reports and employer evaluation. Open only to Advertising majors. Course will be repeatable once for credit (only 3 hours will count for credit toward major).

AD 495. INDEPENDENT STUDY IN ADVERTISING. (1-6) *Prerequisites: COMM 200 with a grade of "C" or better, and permission of instructor.* Develops directed research in Advertising. Students must submit a written petition for faculty approval of the study in the semester prior to enrolling.

AERO– AEROSPACE STUDIES
OGDEN COLLEGE OF SCIENCE AND ENGINEERING

AERO 151 / 153. THE U.S. AIR FORCE TODAY. (1) Freshman year. A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills.

AERO 251 / 253. THE DEVELOPMENT OF AIR POWER. (1) Sophomore year. This course examines the development of air power over the past 80 years. It traces the evolution of various concepts of air power employment and focuses upon tactics that have promoted research and technological change. A variety of events and elements in the history of air power are stressed, particularly where these events provide a significant example of the impacts of air power on strategic and tactical thought.

AERO 351 / 353. AIR FORCE LEADERSHIP AND MANAGEMENT-THE PROFESSIONAL OFFICER. (3) Junior year. These courses are designed to further develop the students managerial and leadership abilities. Emphasis is placed on group discussions, seminars, writing and speaking assignments, and appropriate lectures. A detailed examination of the meanings of professionalism and integrity are discussed and exercised through practical experiences. Courses include problem solving exercises and theories of leadership and management.

AERO 451 / 453. NATIONAL SECURITY AFFAIRS / PREPARATION FOR ACTIVE DUTY. (3) Senior year. These courses are designed to improve the cadet's ability to speak and write with stylistic accuracy, clarity and dignity. They focus on the Armed Forces as an integral element of society and include an examination of the broad range of American civil-military relations and the environmental context in which defense policy is formulated. Special themes include the role of the professional officer in a democratic society, socialization process within the armed services, requisites for maintaining adequate national security forces, political, economic, and social constraints upon the national defense structure, and the impact of technological and international developments upon strategic preparedness and the overall defense policy-making process.

AFAM– African American Studies
Department of Diversity and Community Studies

AFAM 190. AFRICAN AMERICAN EXPERIENCE. (3) African American life and experiences in the United States viewed from a cross-disciplinary perspective. Seven core subjects are surveyed: African American history, religion, politics, creative productions (music, dance, theatre), economics, social organizations and psychology. ***Colonnade E-SB | SB***

AFAM 333. HIP HOP AND DEMOCRACY. (3) *Prerequisite: AFAM 190 or permission of instructor.* Examines the various and sometimes contradictory views of Hip Hop as a musical form, a forum for political activism, and a voice for articulating and refiguring the democratic values of today's youth.

AFAM 343. COMMUNITIES OF STRUGGLE. (3) *21 hours of Foundations and Explorations Courses, or junior status, or permission of instructor.* Examines the relationship between distinct communities of struggle in Africa and the African Diaspora and the impact of African American social movements on a range of liberation struggles within this context. ***Colonnade K-LG***

AFAM 350. PEOPLES AND CULTURES OF AFRICA. (3) Survey of the cultures of Africa, with emphasis on historical development and contemporary cultural diversity. Equivalent to ANTH / FLK 350.

AFAM 353. RADICAL BLACKNESS. (3) Interdisciplinary study of contemporary Black radical thought through an examination of African American material culture, i.e. symbols, art, music, literature, performance, and cultural studies.

AFAM 358. BLACKS IN AMERICAN HISTORY TO 1877. (3) A chronological study of African American history and culture from 1619 to 1877 with an emphasis on African American contributions to American life and thought. Equivalent to HIST 358.

AFAM 359. BLACKS IN AMERICAN HISTORY SINCE 1877. (3) A chronological study of African American history and culture from 1877 to the present with an emphasis on African American contributions to American life and thought. Equivalent to HIST 359.

AFAM 360. HISTORY OF AFRICA. (3) A survey of the history of sub-Saharan Africa from the earliest times to the present. Equivalent to HIST 360.

AFAM 368. AFRICAN GOVERNMENTS & POLITICS. (3) *Prerequisites: PS 250, PS 260 or permission of the instructor.* Examines sub-Saharan African political and economic development. Focuses on several selected countries and explores the common political and economic problems and opportunities confronting African states.

AFAM 377. AFRICAN AMERICAN FOLKLIFE. (3) Oral, written, and material folk traditions of African Americans, with emphasis on the United States and the Caribbean. Equivalent to FLK 377.

AFAM 393. AFRICAN AMERICAN LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* Study of literature by African American writers. Equivalent to ENG 393.

AFAM 410. AFRICAN AMERICAN MUSIC. (3) A survey of selected musical styles created and developed by African Americans from the 17th to the 20th century: spirituals, blues, popular music forms (e.g., soul, reggae, rap music). Emphasis will be placed on the historical factors and sociocultural trends that influenced the development of African American music. Equivalent to ANTH 410 and FLK 410.

AFAM 466. GEOGRAPHY OF AFRICA. (3) *Prerequisite: Permission of instructor.* A geographic survey assessing the relationships of the physical and cultural patterns to actual and potential economic development. Equivalent to GEOG 466.

AFAM 480. DIRECTED INDEPENDENT STUDY IN AFRICAN AMERICAN TOPICS. (1-3) *Prerequisite: AFAM 190 or permission of instructor.* Designed primarily for advanced students. This course will permit students to pursue selected topics dealing with the life and times of the people of African ancestry in Africa and America.

AFAM 490. AFRICAN AMERICAN SEMINAR. (3) *Prerequisite: AFAM 190 or permission of instructor.* Designed primarily for advanced students. This seminar will include topics dealing with the African American experience, present or past.

AGEC – Agricultural Economics
Department of Agriculture

AGEC 160. INTRODUCTION TO AGRIBUSINESS AND AGRICULTURAL ENTREPRENEURSHIP. (3) Overview of various aspects of agribusiness and agricultural economics with emphasis on entrepreneurial skills. Technical, managerial, and professional qualifications for agribusiness-related careers.

AGEC 260. GOLF COURSE MANAGEMENT. (3) An introductory course on the organization and operation of a golf course business. Topics include planning, implementation and control of the physical facilities and financial aspects.

AGEC 261. AGRICULTURAL ACCOUNTING. (3) Follows Farm Financial Standards Council guidelines for agricultural producers to analyze farm/ranch transactions & accounts, make journal & ledger entries, and produce farm financial statements.

AGEC 360. AGRICULTURAL ECONOMICS. (3) An introduction to the private and public sector of the United States economy. Identification of the resources used in agriculture. Elementary application of economic principles to resource use in agriculture.

AGEC 361. FARM MANAGEMENT. (3) *Prerequisite: AGEC 360.* Organizing and managing farms; factors affecting farm earnings; resource allocation; combining farm enterprises, individual farm organization and farm management problem assignments and application of the principles of business to farming are stressed.

AGEC 362. AGRICULTURAL MARKETING. (3) *Prerequisite: AGEC 360.* Included are principles and methods of marketing farm products; institutions performing the various functions in marketing specific commodities; market prices; marketing costs; elementary treatment of cooperative marketing.

AGEC 365. COMPUTER APPLICATIONS IN AGRICULTURE. (2) *Prerequisite: CSCI 145C or permission of the instructor.* Instruction in the use of microcomputers in agriculture. Included will be word processing, spreadsheets, data files, presentations, and other software used in agriculture.

AGEC 366. AGRICULTURAL SALES AND SERVICES. (3) *Prerequisite: Senior standing or consent of instructor.* Exploration, investigation and application of principles and concepts of sales and service applied to agriculture. A credit and personal improvement course designed for agri-business and educators working with sales and service of agricultural inputs and products.

AGEC 391. SURVEY OF COMMODITY FUTURES AND OPTIONS. (3) *Prerequisites: AGEC 360 and AGRI 291.* Introductory overview of physical commodity features and options markets including history, function, analysis, trends and strategies, with specific focus on agricultural and food industry applications.

AGEC 460. AGRICULTURAL POLICY. (3) *Prerequisite: AGEC 360.* Principles underlying agricultural policy; the role of agriculture in the national economy; objectives of agricultural policy and the means of reaching them; appraisal of current and proposed agricultural programs; and legislation for remedial economic action are presented.

AGEC 461. ADVANCED FARM MANAGEMENT. (3) *Prerequisite: AGEC 361 or instructor's consent.* Identification, analysis and solution of problems of farm organization and operation; how to evaluate and incorporate innovations into new or ongoing operation, case studies and field trips to situation farms in South Central Kentucky are emphasized.

AGEC 463. AGRICULTURE FINANCE. (3) *Prerequisite: AGEC 361 or instructor's consent.* Farm finance problems, credit institutions, capital requirements, investment decisions, budgeting techniques, operation of lending agencies and alternative means of acquiring capital are studied.

AGEC 468. WORLD FOOD DEVELOPMENT. (3) *Prerequisite: AGEC 160 or ECON 150 or ECON 202, or ECON 203.* Study of world food production problems and opportunities in feeding an ever-increasing population. Assessment of world food production, poverty, government policies, multi-national businesses and cultures. Investigates methods of increasing production.

AGEC 471. AGRIBUSINESS ENTREPRENEURIAL SYSTEM. (3) *Prerequisites or corequisites: At least junior status or instructor's authorization.* Connecting essential concepts/components learned from various disciplines to develop entrepreneurial skills in the agriculture industry in order to create innovative agriculture-related ventures and manage them profitably.

AGEC 475. SPECIAL TOPICS IN AGRICULTURE ECONOMICS. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

AGEC 482. DEVELOPMENT OF AGRICULTURAL RESOURSES FOR RECREATION. (3) *Prerequisite: Upper division or instructor's consent.* Principles in developing physical facilities for various rural recreational enterprises are studied. Topics include enterprise selection, program planning, site selection, promotion financing, management and construction of facilities.

AGED – Agricultural Education
Department of Agriculture

AGED 200. FOUNDATIONS OF AGRICULTURAL EDUCATION. (1) History and foundation of agricultural education and career and technical education. Includes tools to promote, oversee, and evaluate agricultural education activities in grades 7-12.

AGED 250. INTRODUCTION TO TEACHER EDUCATION IN AGRICULTURE. (3) An analysis of the philosophical, psychological, and sociological foundations of education in American academic and career-technical public education. Qualification, performance and general expectation of the agriculture teacher are stressed. Students must complete a 25-hour pre-student teaching experience in the public schools. Periodic class trips are taken to observe various agriculture education departments. Equivalent to EDU 250.

AGED 300. YOUTH DEVELOPMENT FOR AGRICULTURAL EDUCATORS. (3) *Prerequisite: AGED 250 or MGE 275.* Prepares future secondary school agricultural educators to provide academic advisement and leadership in youth development programs in secondary schools.

AGED 470. METHODS OF TEACHING IN AGRICULTURAL EDUCATION. (3) *Prerequisites: AGED 250 (EDU 250), SPED 330, AGRI 398, PSY 310, and admission to student teaching.* Experiences related to the teaching of agriculture education, further preparing the prospective teacher in supervised occupational experience programs. FFA activities, classroom management, and general teaching techniques. Departments are occasionally visited.

AGED 471. ORGANIZATION AND PLANNING IN AGRICULTURAL EDUCATION. (3) *Prerequisites: AGED 250 (EDU 250), SPED 330, AGRI 398, PSY 310, and admission to student teaching.* A teacher preparation course designed to prepare pre-service teachers for the student teaching experience and for a full-time teaching position. Unit planning, lesson preparation, and delivery comprise the major portion of this course. ***Course Fee***

AGED 475. SELECTED TOPICS IN AGRICULTURE. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

AGED 489. SPECIAL PROBLEMS IN AGRICULTURAL EDUCATION. (1-3) *Prerequisites: Instructor's consent and 3.0 grade point average required.* May be repeated to a maximum of six credits.

AGMC– AGRICULTURAL MECHANICS
DEPARTMENT OF AGRICULTURE

AGMC 170. INTRODUCTION TO AGRICULTURAL MECHANIZATION. (2) *Corequisite: AGMC 171.* The topics studied in this course will be electrical power, land surveying and building construction.

AGMC 171. INTRODUCTION TO AGRICULTURAL MECHANIZATION LABORATORY. (1) *Corequisite: AGMC 170.* A laboratory course correlated with AGMC 170. ***Course Fee***

AGMC 172. LAWN AND GARDEN EQUIPMENT. (2) *Corequisite: AGMC 173.* The student will study equipment used in the lawn and garden industry. Primary study will involve the engine and its accessories.

AGMC 173. LAWN AND GARDEN EQUIPMENT LABORATORY. (1) *Corequisite: AGMC 172.* The student will disassemble and repair engines and other components by following manufacturer's specification, using measuring devices, and other recommended procedures.

AGMC 176. AGRICULTURE SAFETY. (2) Topics include the safe handling of hand tools, agricultural machinery, farm animals, pesticides, and fertilizers, with emphasis on hazard awareness, workplace regulations, and basic intervention strategies. Students will be trained in CPR (not certified) and other quick response first aid techniques.

AGMC 270. TURF MOWING EQUIPMENT MAINTENANCE. (2) *Corequisite: AGMC 271.* Instruction in the use of modern machines and techniques to maintain cutting equipment used in the turf industry. Techniques for precision maintenance are studied.

AGMC 271. TURF MOWING EQUIPMENT MAINTENANCE LABORATORY. (1) *Corequisite: AGMC 270.* A laboratory course correlated with AGMC 270.

AGMC 272. TURF EQUIPMENT MANAGEMENT AND OPERATION. (2) Instruction in the selection, economic management and operation of turf equipment. Included are safety, pesticide certification, adjustments, basic operation, and cost analysis.

AGMC 273. TURF EQUIPMENT MANAGEMENT AND OPERATION LABORATORY. (1) *Corequisite: AGMC 272.* A laboratory course correlated with AGMC 272.

AGMC 326. PRECISION AGRICULTURE. (3) *Prerequisites: AGRO 350 or consent of instructor.* Utilization of remote sensing, soil sampling and information management tools to increase agricultural production, optimize returns, and preserve natural resources. Satellite, informational and geospatial technologies are examined within the context of production agriculture.

AGMC 371. AGRICULTURAL MECHANICS. (2) *Corequisite: AGMC 372.* The major focus of this course will be metal work, welding and basic metallurgy.

AGMC 372. AGRICULTURAL MECHANICS LABORATORY. (1) *Corequisite: AGMC 371.* A laboratory course correlated with AGMC 371. ***Course Fee***

AGMC 373. FARM POWER—MECHANICAL AND MACHINERY. (2) *Corequisite: AGMC 374. Prerequisites: AGMC 170, 371 or permission of instructor.* The student will learn basic engine principles used on farm equipment and accessory systems. Basic principles of machinery management as applied toward proper machinery use and adjustment in the field will be addressed.

AGMC 374. FARM POWER—MECHANICAL AND MACHINERY LABORATORY. (1) *Corequisite: AGMC 373.* The student will disassemble and reassemble engines and machinery components.

AGMC 377. FARM MACHINERY. (2) *Corequisite: AGMC 378. Prerequisites: AGMC 170, permission of instructor.* The design principles, operation, selection and management of agricultural tillage, forage and harvesting equipment are studied. Field trips as needed.

AGMC 378. FARM MACHINERY LABORATORY. (1) *Corequisite: AGMC 377.* A laboratory course correlated with AGMC 377.

AGMC 390. FARM STRUCTURES AND ENVIRONMENT. (2) *Corequisite: AGMC 391. Prerequisites: AGMC 170, 371 or permission of instructor.* The basic concepts of structural and environmental problems as they relate to agricultural buildings, analysis of materials and their selection for agriculture buildings are presented. Design of light-framed structures and the use of environmental controls in livestock and product storage buildings, building codes and their effects on farm structures are reviewed. Field trips as needed.

AGMC 391. FARM STRUCTURES AND ENVIRONMENT LABORATORY. (1) *Corequisite: AGMC 390.* A laboratory course correlated with AGMC 390.

AGMC 392. TURF IRRIGATION. (2) *Corequisite: AGMC 393. Prerequisites: MATH 115 or MATH 116, AGRO 110.* Instruction in the selection, care, operation and management of irrigation systems specifically designed for commercial, industrial and residential turf settings. Special emphasis given to the unique circumstance of golf courses. Field trips required.

AGMC 393. TURF IRRIGATION LABORATORY. (1) *Corequisite: AGMC 392.* A laboratory course correlated with AGMC 392.

AGMC 425. APPLIED HYDRAULICS AND PNEUMATICS. (3) *Prerequisites: MATH 115 or MATH 116.* Lecture and Lab. Study of the fundamental principles of hydraulic and pneumatic systems and their application to mobile and stationary agriculture and construction machinery.

AGMC 475. SELECTED TOPICS IN AGRICULTURE. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

AGRI – AGRICULTURE
DEPARTMENT OF AGRICULTURE

AGRI 101. THE SCIENCE OF AGRICULTURE. (3) Biological, chemical, and earth science concepts are related to agriculture. Intended for non-majors. Does not count toward agriculture major credit.

AGRI 108. RURAL SOCIOLOGY. (3) The study of rural social groups and interaction in rural and suburban America as well as in rural areas of the world. The influences of basic concepts of society and culture and the relationship of rural population, class, social institutions, and groups on rural social change. ***Colonnade E-SB | SB***

AGRI 175. UNIVERSITY EXPERIENCE – AGRICULTURE. (1) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources, and personal development. Agricultural issues, degree requirements, specializations with agriculture, career trends, and resources are addressed.

AGRI 269. COOPERATIVE EDUCATION IN AGRICULTURE I. (1 – 4) *Prerequisite: Sophomore standing.* Practical out-of-the classroom experience in a supervised work situation with a cooperating business, industry or governmental agency, emphasizing application of knowledge and skills in specified areas of agriculture. A maximum of 8 hours of cooperative education may apply toward a major in agriculture. Does not count toward agriculture minor credit. (Grading: Pass / Fail)

AGRI 280. INTRODUCTION TO ENVIRONMENTAL SCIENCE. (3) An introductory course devoted to the study of environmental issues. A general understanding of application of science to solution of contemporary environmental problems. ***Colonnade E-NS | NS***.

AGRI 291. INTRODUCTION TO DATA ANALYSIS AND INTERPRETATION. (3) *Prerequisites: MATH 115 or MATH 116.* Application of scientific method in acquiring new knowledge, interpretation of statistical research data; application of statistical concepts. Lecture and laboratory.

AGRI 315. WATER IN FOOD PRODUCTION. (3) *Prerequisites / Corequisites: Junior standing with a minimum of 12 hours of agriculture or other sciences, or combination thereof.* A study of the role of water in food production, including availability and distribution, economics, droughts and floods, pollution, waste disposal, sustainability, political rights and regulations, and ethics.

AGRI 323 WINE FUNDAMENTALS. (3) Agricultural and historical origins of wine, including important grape varietals and principles of fermentation. Major wine-producing regions and fundamentals of wine marketing are also explored.

AGRI 355. BIOTECHNOLOGY IN AGRICULTURE. (3) *Prerequisites: BIOL 120 / 121 and either AGRO 110 or ANSC 140.* Introduction to current biotechnologies used in agriculture including genetic modification of crop plants and animals, genetically modified foods, fermentation biotechnology, pharming and other current topics.

AGRI 369. COOPERATIVE EDUCATION IN AGRICULTURE II. (1-4) *Prerequisite: Junior standing.* Practical out-of-the classroom experience in a supervised work situation with a cooperating business, industry or government agency, emphasizing application of knowledge and skills in specified areas of agriculture. A maximum of 8 hours of cooperative education may apply toward a major in agriculture. Does not count toward agriculture minor credit. (Grading: Pass / Fail)

AGRI 397. AGRICULTURE CAREER PLANNING. (1) *Prerequisite: Junior standing in agriculture or permission of the instructor.* Job search preparation, including completion of a resume, cover letter and mock interview. Options for obtaining graduate education and internship experience are also explored. Outside speakers from the agriculture industry are included.

AGRI 398. SEMINAR. (1) *Prerequisites: Senior standing in agriculture or instructor's consent.* Current literature from representative journals in the field of agricultural research is reviewed orally by students. Discussion, one hour.

AGRI 399. RESEARCH PROBLEMS IN AGRICULTURE. (1-3) *Prerequisites: 3.0 and senior standing and instructor's consent.* Gives students an opportunity to pursue a thorough study of some particular phase of agriculture. Credit to be arranged. (Grading: Pass / Fail)

AGRI 450. RURAL HEALTH AND SAFETY. (3) Students will explore a variety of health and safety issues unique to rural populations. The interdisciplinary team concept will be used throughout the course to foster collaboration that facilitates sharing of the expertise of students and faculty.

AGRI 469. COOPERATIVE EDUCATION IN AGRICULTURE III. (1-4) *Prerequisite: Senior standing.* Practical out-of-the classroom experience in a supervised work situation with a cooperating business, industry or governmental agency, emphasizing application of knowledge and skills in specified areas of agriculture. A maximum of 8 hours of cooperative education may apply toward a major in agriculture. Does not count toward agriculture minor credit.
(Grading: Pass / Fail)

AGRI 475. SELECTED TOPICS IN AGRICULTURE. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

AGRI 491. DATA ANALYSIS AND INTERPRETATION. (3) *Prerequisites: MATH 115 or higher and junior standing*. Basic concepts of statistical models and use of samples. Variation, statistical measures, distribution, tests of significance, analysis of variance and elementary experimental design, regression and correlation as related to interpretation and use of scientific data are discussed.

AGRI 493. SUSTAINABLE AGRICULTURE. (3) *Prerequisites: Upper division standing, minimum of 18 hours in agriculture and related areas, including at least 12 hours of plant and animal production, soils, crop protection, crop improvement, economics, or ecology; or permission of instructor.* Effect of diminishing resources, environmental pollution, and short-term economics on the sustainability of productive agriculture. Emphasis on managing crops, livestock, and other farm resources in providing an ecological-economical balance in agricultural production.

AGRI 494. CONTEMPORARY AGRICULTURAL ISSUES. (3) *Prerequisite: Senior standing.* An analysis of contemporary agricultural ethical issues as viewed by consumers, advocacy groups and producers. While issues may vary, topics may include: animal welfare, biotechnology, environmental protection, food quality, food policy, land use, and tobacco.

AGRO – AGRONOMY
DEPARTMENT OF AGRICULTURE

PLANT SCIENCE

AGRO 110. INTRODUCTION TO PLANT SCIENCE. (3) Principles of plant growth and development are applied to agriculture.

AGRO 111. PLANT SCIENCE LABORATORY. (1) *Corequisite: AGRO 110.* A laboratory course correlated with AGRO 110. Laboratories coincide with lecture topics. Lab is strongly encouraged for students in the plant sciences. ***Course Fee***

AGRO 310. PEST MANAGEMENT. (3) *Prerequisites: AGRO 110 and CHEM 105 or equivalent.* Identification and management of insects, diseases and weeds of major importance in agronomic crops, turfgrasses and landscape plantings.

AGRO 311. AGRONOMY. (3) *Prerequisite: AGRO 110 or BIOL 120.* Principles of growth and development of agronomic plants and their management. Special consideration is given to Kentucky's major agronomic crops.

AGRO 320. CROP PHYSIOLOGY. (3) *Prerequisites: AGRO 110, BIOL 120 and CHEM 105 or CHEM 120.* Effects of various physiological and environmental factors on crop production are discussed.

AGRO 409. WEED SCIENCE. (2) *Prerequisites: CHEM 107 or equivalent; AGRO 320, AGRO 350. Corequisite: AGRO 410.* Identification of prominent weed species; relationship of weeds to crop production problems; control measures, both physical and chemical, are presented.

AGRO 410. WEED SCIENCE LABORATORY. (1) *Corequisite: AGRO 409.* A laboratory course correlated with AGRO 409.

AGRO 414. CROP IMPROVEMENT. (3) *Prerequisites: Six hours of plant science plus upper division standing.* Identification, development, and utilization of genetic differences in the improvement of cultivated plants.

AGRO 418. PLANT PATHOLOGY. (3). *Prerequisites: AGRO 110, BIOL 120 and AGRO 350 or permission of instructor.* Introduction to common plant pathogens and diseases of agronomically important field and forage crops, turf, vegetables and ornamentals. Topics include control measures, newly discovered diseases, and plant-pathogen interactions.

AGRO 420. FORAGE CROPS. (2) *Prerequisites: AGRO 110, 350 and BIOL 120. Corequisite: AGRO 421.* Distribution, improvement, morphology, culture, harvesting and utilization of forage crops are presented.

AGRO 421. FORAGE CROPS LABORATORY. (1) *Corequisite: AGRO 420.* A laboratory course correlated with AGRO 420.

AGRO 422. FIELD CROPS. (3) *Prerequisites: AGRO 320 and AGRO 350.* Distribution, improvement, morphology, culture, harvesting and utilization of field crops are presented.

SOIL SCIENCE

AGRO 350. SOILS. (3) *Prerequisites: CHEM 105, 106, or CHEM 120 and CHEM 121.* A basic study of soil properties and processes emphasizing soil management and its application to agriculture.

AGRO 351. SOILS LABORATORY. (1) *Pre / Corequisite: AGRO 350.* A laboratory course correlated with AGRO 350. Laboratory exercises and experiences to supplement lecture topics.

AGRO 352. SOIL FERTILITY AND FERTILIZERS. (3) *Prerequisite: AGRO 350 and AGRO 110.* Soil reactions of elements essential for plant growth and development, sources and manufacture of fertilizer materials, use of fertilizers and lime, use of sound management practices are stressed.

AGRO 452. SOIL MICROBIOLOGY. (3) *Prerequisite: AGRO 350.* Soil microbial populations and systems and their influence on plant nutrition, soil organic matter, its decomposition and other soil microbial biochemical processes are presented.

AGRO 454. SOIL MANAGEMENT AND CONSERVATION. (3) *Prerequisite: AGRO 350.* Economic utilization of land for agricultural, recreation and public purposes based on location and capability characteristics; interpretation and application of soil survey information for best interests in crop production, conservation, public and industrial use; practice in designing land use maps are stressed.

AGRO 455. SOIL CHEMISTRY. (2) *Prerequisite: AGRO 350. Corequisite: AGRO 456.* Analytical techniques used in soil chemistry and soil fertility; studies nutrient determination, colloidal systems, chemical properties related to plant nutrition.

AGRO 456. SOIL CHEMISTRY LABORATORY. (1) *Corequisite: AGRO 455.* A laboratory course correlated with AGRO 455.

AGRO 457. SOIL FORMATION, CLASSIFICATION AND MAPPING. (2) *Prerequisite: AGRO 350 and permission of instructor. Corequisite: AGRO 458.* Soil origin; classification schemes; profile description, mapping and interpretation of soil survey information emphasizing Kentucky soils, are discussed.

AGRO 458. SOIL FORMATION, CLASSIFICATION AND MAPPING LABORATORY. (1) *Corequisite: AGRO 457.* A laboratory course correlated with AGRO 457.

AGRO 475. SELECTED TOPICS IN AGRICULTURE. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

AH – ALLIED HEALTH
DEPARTMENT OF ALLIED HEALTH

AH 190. INTRODUCTION TO ALLIED HEALTH PROFESSIONALS. (2) This course provides an overview of the history, current practice, and wellness issues, and future potential for allied health parishioners. Legal, ethical, and interpersonal aspects of patient care are introduced. Educational requirements, credentialing procedures and career opportunities are outlined. Observation of an allied health professional is required.

AH 290. MEDICAL TERMINOLOGY. (2) A course designed to acquaint the student with the specialized language of medicine and to develop communication skills in areas where use of medical terms is necessary and appropriate. Equivalent to HIM 290.

AMS – ARCHITECTURAL AND MANUFACTURING SCIENCES
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

AMS 101. INTRODUCTORY AMS RESEARCH (1-6) *Prerequisite: Enrollment in a program of study within the Architectural and Manufacturing Sciences Department or consent of instructor.* An introduction to research projects and problem-solving techniques in various AMS fields. May be repeated to a maximum of six hours.

AMS 102. TECHNICAL GRAPHICS. (1) An introduction to the basic skills and applications of drawing techniques. Sketching and instrument drafting with emphasis on line weights, lettering, equipment use, geometric construction and pictorial drawings.

AMS 103. INTRODUCTION TO WOOD PRODUCTS TECHNOLOGY. (3) A beginning wood-working course dealing with both hand and machine tool processes. Students are required to plan, construct and finish a furniture item. ***Course Fee***

AMS 120. BASIC ELECTRICITY. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws. ***Course Fee***

AMS 120-M1. BASIC ELECTRICITY MODULE 1. (1) *Prerequisite: Eligibility for MATH 116.* Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws.

AMS 120-M2. BASIC ELECTRICITY MODULE 2. (1) *Prerequisite: Eligibility for AMS 120-M1.* Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws. ***Course Fee***

AMS 120-M3. BASIC ELECTRICITY MODULE 3. (1) *Prerequisite: Eligibility for AMS 120-M2.* Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws.

AMS 140. INTRODUCTION TO OCCUPATIONAL SAFETY. (1) An introduction to workplace safety, health, and environmental issues in manufacturing and construction organizations. ***Course Fee***

AMS 151. ARCHITECTURAL GRAPHICS. (3) An introduction to the basic skills and applications of drawing and modeling techniques. Sketching and drafting with emphasis on line weights, lettering, equipment, geometric construction and pictorial drawings. Conventional modeling and an introduction to software applications with emphasis on 3D form, context, and material delineation. ***Course Fee***

AMS 163. ARCHITECTURAL DRAFTING. (3) An introductory course using sketching and CADD software to teach orthographic projection, isometric projection, sections, dimensioning, and 3D modeling. This course designed for majors in the Architectural Sciences Concentration, Interior Design, Civil Engineering, Geography and Textiles. ***Course Fee***

AMS 175. UNIVERSITY EXPERIENCE-AMS. (2) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources and personal development. Special attention is given to educational requirements, careers and resources in the fields of construction management, manufacturing and industrial distribution, architectural sciences, technology management and technology education. ***Course Fee***

AMS 180. INTRODUCTION TO ARCHITECTURE. (3). Survey of the history of architectural theory and application from antiquity to today. The primary vehicle of investigation will be the architectural artifacts of the built environment and the philosophical rationale behind the motivation for their creation. ***Course Fee***

AMS 205. CADD FOR MANUFACTURING. (3) *Prerequisites: MATH 116 with a grade of "C" or better, or MATH 117 or better.* A solids modeling course designed to develop skills on the use of a PC based mechanical design software to build feature-based, parametric solid models of parts and assemblies. Manufacturing drawings – orthographics – of those parts and assemblies are produced. ***Course Fee***

AMS 205-M1. CADD FOR MANUFACTURING MODULE 1. (1) A solids modeling course designed to develop skills on the use of a PC based mechanical design software to build feature-based, parametric solid models of parts and assemblies. Manufacturing drawings – orthographics – of those parts and assemblies are produced.

AMS 205-M2. CADD FOR MANUFACTURING MODULE 2. (1) *Prerequisite: AMS 205-M1.* A solids modeling course designed to develop skills on the use of a PC based mechanical design software to build feature-based, parametric solid models of parts and assemblies. Manufacturing drawings – orthographics – of those parts and assemblies are produced. ***Course Fee***

AMS 205-M3. CADD FOR MANUFACTURING MODULE 3. (1) *Prerequisite: AMS 205-M2.* A solids modeling course designed to develop skills on the use of a PC based mechanical design software to build feature-based, parametric solid models of parts and assemblies. Manufacturing drawings – orthographics – of those parts and assemblies are produced.

AMS 210. TECHNOLOGY AND SOCIETAL IMPACT (3) A study of technology and the west through Great Britain's Industrial Revolution (c. 1850) and the expansion and diffusion of Western Industrial Technology (c. 1850 to present). ***Course Fee***

AMS 217. INDUSTRIAL MATERIALS. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* Survey of materials concepts and their applications to the production of manufactured items. Included will be basic procedures for testing manufacturing materials and discussions of materials processing concepts and cautions. ***Course Fee***

AMS 217-M1. INDUSTRIAL MATERIALS MODULE 1. (1) *Prerequisite: MATH 116 or higher.* Survey of materials concepts and their applications to the production of manufactured items. Included will be basic procedures for testing manufacturing materials and discussions of materials processing concepts and cautions.

AMS 217-M2. INDUSTRIAL MATERIALS MODULE 2. (1) *Prerequisite: AMS 217-M1.* Survey of materials concepts and their applications to the production of manufactured items. Included will be basic procedures for testing manufacturing materials and discussions of materials processing concepts and cautions. ***Course Fee***

AMS 217-M3. INDUSTRIAL MATERIALS MODULE 3. (1) *Prerequisite: AMS 217-M2.* Survey of materials concepts and their applications to the production of manufactured items. Included will be basic procedures for testing manufacturing materials and discussions of materials processing concepts and cautions.

AMS 227. INTRODUCTION TO MANUFACTURING METHODS. (3) *Prerequisites: MATH 115 or MATH 116 with a grade of C or better in either; or MATH 117 or higher with a passing grade.* A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes. ***Course Fee***

AMS 227-M1. INTRODUCTION TO MANUFACTURING METHODS MODULE 1. (1) A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes.

AMS 227-M2. INTRODUCTION TO MANUFACTURING METHODS MODULE 2. (1) *Prerequisite: AMS 227-M1.* A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes. ***Course Fee***

AMS 227-M3. INTRODUCTION TO MANUFACTURING METHODS MODULE 3. (1) *Prerequisite: AMS 227-M2.* A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes.

AMS 251. 3D MODELING AND IMAGING. (3) *Prerequisites: AMS 151, 163.* Introduction to 3D modeling, animation and visualization techniques. Topics include, 3D solids, perspective projection, lighting, cameras, texturing, walk-through and fly-by animations using current industry software. ***Course Fee***

AMS 261. CONSTRUCTION METHODS AND MATERIALS. (3) Survey of the basic methods and materials used for light commercial and residential construction applications. Addresses general requirements and site work, along with primary materials and techniques of regional construction practices. ***Course Fee***

AMS 262. CONSTRUCTION LABORATORY. (1) The laboratory to accompany AMS 261. Hands-on experience with basic construction methods and materials used in light commercial and residential construction, including framing, concrete, masonry, and miscellaneous metals. ***Course Fee***

AMS 263. ARCHITECTURE DOCUMENTATION I. (3) *Prerequisites: AMS 163 with a grade of "C" or higher; AMS 261*. Planning and producing residential construction drawings. Residential construction standards and codes; building materials research and specification. ***Course Fee***

AMS 271. INDUSTRIAL STATISTICS. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* A study of statistical techniques typically used in industry for purposes of Statistical Process Control, material science research, and system planning and operation. ***Course Fee***

AMS 271-M1. INDUSTRIAL STATISTICS MODULE ONE. (1) *Prerequisites: MATH 116 or equivalent.* Introduction to basic statistics used in industrial settings. Measurements, scales, data collection and organization, probability and discrete distributions, measure of central tendency, measures of dispersions, and continuous distributions.

AMS 271-M2. INDUSTRIAL STATISTICS MODULE TWO. (1) *Prerequisites: AMS 271 M1 with a grade of B or better.* Statistical Process Control (SPC) for both variable and attribute data. Xbar, R, S, p, np, c, and u charts, and variable subgroup data applications. Process analysis and capability. Individuals charts.

AMS 271-M3. INDUSTRIAL STATISTICS MODULE THREE. (1) *Prerequisites: AMS 271 M2 with a grade of B or better.* Acceptance sampling plans and corresponding OC curves. Consumer/producer relationship. Introductory inferential statistics including confidence intervals, hypothesis, z tests, and ANOVA. Awards, certification, and quality.

AMS 273. ARCHITECTURAL DETAILING. (3) *Prerequisite: AMS 263 with a grade of "C" or better.* Architectural detailing in terms of function, contractibility, and aesthetics. A transition from architectural ideas to build reality. Detailing as a means of controlling: water, air heat flow, sound, aging, and load transfer. Detailing with respect to economics, ease of assembly, efficiency, and problem solving. Lecture and laboratory. ***Course Fee***

AMS 282. BUILDING STRUCTURES. (3) *Prerequisites: MATH 117 or higher*. Survey of concepts, knowledge, and methods of statics and strength of materials with emphasis on factors that influence the development of architectural space and form. Includes qualitative and quantitative solution methods, focusing on application versus theoretical principles. ***Course Fee***

AMS 300. WOOD FINISHING PROCESSES. (3) *Prerequisite: Junior standing.* A survey of industrial finishing materials, equipment and processes. ***Course Fee***

AMS 301. INTRODUCTION TO FOOD SCIENCE AND TECHNOLOGY. (3) *Prerequisites: CHEM 105.* A comprehensive introduction to the basic concepts and principles of food science and the role of science in food processing and manufacturing. ***Course Fee***

AMS 303. FOOD LAWS AND REGULATIONS. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. History, development, and enforcement of major federal food statutes and regulations, with emphasis on the Federal Food, Drug, and Cosmetic Act (FDCA), the Food and Drug Administration (FDA) and the US Department of Agriculture (USDA) regulations. ***Course Fee Colonnade K-LG***

AMS 305. BUILDING CODES. (3) *Prerequisite: AMS 261*. Introduction to format and content of current building codes, including interpretation and code research for application to residential and commercial projects, with emphasis on building design. ***Course Fee***

AMS 308. GRAPHIC COMMUNICATION. (3) *Prerequisite: AMS 163 or AMS 205.* Includes preparation of camera copy, line copy, photography, halftone photography, making color separations, and offset platemaking. Students explore offset printing and photographic screen printing of half-tone images.

AMS 310. ERGONOMICS AND SAFETY. (3) *Prerequisite: MATH 116.* People-machine interaction, including an introduction to the relevant underlying human sciences. The interaction of how these issues relate to safety in the workplace will be elaborated upon. ***Course Fee***

AMS 310-M1. WORK DESIGN / ERGONOMICS MODULE 1. (1) *Prerequisite: MATH 116.* Design for people-machine interaction, including an introduction to the relevant underlying human sciences. Theory, data, and measurement problems in human information processing, training and industrial safety.

AMS 310-M2. WORK DESIGN / ERGONOMICS MODULE 2. (1) *Prerequisite: AMS 310-M1.* Design for people-machine interaction, including an introduction to the relevant underlying human sciences. Theory, data, and measurement problems in human information processing, training and industrial safety. ***Course Fee***

AMS 310-M3. WORK DESIGN / ERGONOMICS MODULE 3. (1) *Prerequisite: AMS 310-M2.* Design for people-machine interaction, including an introduction to the relevant underlying human sciences. Theory, data, and measurement problems in human information processing, training and industrial safety.

AMS 311. DIGITAL SYSTEMS SIMULATION. (3) *Prerequisite: AMS 271.* Analysis of systems using both analytic methods and computer simulation. Empirical and theoretical models of arrival and service processes. State spaces and state transition probabilities. Simulation of queuing and manufacturing systems. Continuous time analysis of manufacturing systems. ***Course Fee***

AMS 314. ADVANCED CADD FOR MANUFACTURING. (3) *Prerequisite: AMS 205.* Study of 2D and 3D CADD applications, related assembly and working drawings, tolerancing, geometric dimensioning and tolerancing (GD&T) and quality issues. A team approach will be used in class. ***Course Fee***

AMS 325. SURVEY OF BUILDING SYSTEMS. (3) *Prerequisites: AMS 163, 261 and MATH 117 or equivalent.* A study of National Electric Code, BOCA National Building Code, Standard Building Code, Local Building Code, structural systems, egress system, residential and commercial wiring, blueprint reading, HVAC, and energy conservation techniques. ***Course Fee***

AMS 328. ROBOTICS AND MACHINE VISION. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications. ***Course Fee***

AMS 328-M1. ROBOTICS AND MACHINE VISION MODULE 1. (1) Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications.

AMS 328-M2. ROBOTICS AND MACHINE VISION MODULE 2. (1) *Prerequisite: AMS 328-M1.* Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications. ***Course Fee***

AMS 328-M3. ROBOTICS AND MACHINE VISION MODULE 3. (1) *Prerequisite: AMS 328-M2.* Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications.

AMS 329. INTRODUCTION TO CAREER AND TECHNICAL EDUCATION. (3) The characteristics and purposes of American public education with emphasis on vocational, career, and general education; the place of relationships and differences in preparing people for occupational careers.

AMS 330. INVESTIGATION IN SECONDARY EDUCATION. (1, 2, OR 3) *Prerequisite: Junior standing or permission of the department head.* Individual investigations of methods and materials, curriculum problems, the secondary school, and other areas of need or interest related to secondary education. ***Course Fee***

AMS 331. METHODS IN VOCATIONAL EDUCATION. (3) The preparation and application of instructional materials, methods, techniques, and technology relevant to teaching vocational, industrial, and technical subjects.

AMS 332. SOLAR TECHNOLOGY APPLICATIONS. (3) *Prerequisite: MATH 118 or MATH 117.* Practical applications of basic laws of physics governing behavior of mechanical and electrical components to convert solar energy to electricity. Discussion of passive and active utilization of solar energy to provide domestic hot water and space heating. Solar geometry and system design with emphasis on efficiency. Travel to WKU Center for Research and Development required.

AMS 333. INSTRUCTIONAL MEDIA AND CURRICULUM IN INDUSTRIAL, VOCATIONAL, AND CAREER EDUCATION. (3) Curriculum review / development and the selection, sources, and use of technology suitable for industrial, vocational, and technical education.

AMS 334. WORKSHOP IN VOCATIONAL EDUCATION CLASSROOM / LABORATORY MANAGEMENT. (3) *Prerequisite: Permission of the instructor.* A study of the theory and principles related to classroom / laboratory management and their application in planning, organizing, and managing a vocational technical learning environment. Emphasis is given to the management of facilities, instructional areas, and work / storage areas, as well as safety and discipline.

AMS 340. MANUFACTURING OPERATIONS I. (3) *Prerequisites: AMS 371; AMS 311 and AMS 205.* Survey of methods for designing products for improved quality and manufacturability in industry, and designing processes for improved reliability. Includes "concurrent design of products and processes" and rapid introduction of new products to markets, rapid prototyping methods and applications, process optimization, testing and production planning. Note: AMS 340 and 341 must be taken in consecutive semesters. ***Course Fee***

AMS 341. MANUFACTURING OPERATIONS II. (3) *Prerequisite: AMS 340.* Survey of methods for testing and production planning, pilot production runs, production cost estimating. Includes introduction of new products to production, planning for quality, measurement of associated costs, process development and optimization. Lecture and laboratory. Note: AMS 341 must be preceded by AMS 340 in the previous semester. ***Course Fee***

AMS 342. MANUFACTURING OPERATIONS. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* Survey of methods for designing products for improved quality and manufacturability in industry and designing manufacturing processes for improved reliability. ***Course Fee***

AMS 342-M1. MANUFACTURING OPERATIONS MODULE 1. (1) *Prerequisite: AMS 271 or AMS 271-M3.* Survey of methods for designing products for improved quality and manufacturability in industry and designing manufacturing processes for improved reliability.

AMS 342-M2. MANUFACTURING OPERATIONS MODULE 2. (1) *Prerequisite: AMS 342-M1.* Survey of methods for designing products for improved quality and manufacturability in industry and designing manufacturing processes for improved reliability. ***Course Fee***

AMS 342-M3. MANUFACTURING OPERATIONS MODULE 3. (1) *Prerequisite: AMS 342-M2.* Survey of methods for designing products for improved quality and manufacturability in industry and designing manufacturing processes for improved reliability.

AMS 343. AUTOMATED SYSTEMS. (3) *Prerequisite: AMS 120 or approval of instructor.* Techniques of automated systems dealing with material handling, PLC and off-the-shelf computer control systems. Programming the microprocessor for control applications may be included. Lecture and laboratory. ***Course Fee***

AMS 343-M1. AUTOMATED SYSTEMS MODULE 1. (1) *Prerequisite: AMS 120 or AMS 120-M3.* Techniques of automated systems dealing with material handling, PLC and off-the-shelf computer control systems. Programming the microprocessor for control applications may be included.

AMS 343-M2. AUTOMATED SYSTEMS MODULE 1. (1) *Prerequisite: AMS 343-M1.* Techniques of automated systems dealing with material handling, PLC and off-the-shelf computer control systems. Programming the microprocessor for control applications may be included. ***Course Fee***

AMS 343-M3. AUTOMATED SYSTEMS MODULE 1. (1) *Prerequisite: AMS 343-M2.* Techniques of automated systems dealing with material handling, PLC and off-the-shelf computer control systems. Programming the microprocessor for control applications may be included.

AMS 351. BUILDING INFORMATION MODELING. (3) *Prerequisites: AMS 251; AMS 363 with a grade of "C" or higher.* Advanced course in architectural modeling, focusing on the concepts and processes of creating object-oriented databases by embedding relevant building information into parametric modeling systems, and extracting building data using standard industry software applications. ***Course Fee***

AMS 352. FOOD PROCESSING: UNIT OPERATIONS. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* An overview of unit operations and processing techniques used in food processing industry. Topics include thermal processing, low temperature preservation, dehydration, irradiation, enzyme technology, separation and concentration, evaporation and distillation, and high-pressure and minimal processing methods.

AMS 352-M1. FOOD PROCESSING: UNIT OPERATIONS MODULE 1. (1) An overview of unit operations and processing techniques used in food processing industry. Topics include thermal processing, low temperature preservation, dehydration, irradiation, enzyme technology, separation and concentration, evaporation and distillation, and high-pressure and minimal processing methods.

AMS 352-M2. FOOD PROCESSING: UNIT OPERATIONS MODULE 2. (1) *Prerequisite: AMS 352-M1.* An overview of unit operations and processing techniques used in food processing industry. Topics include thermal processing, low temperature preservation, dehydration, irradiation, enzyme technology, separation and concentration, evaporation and distillation, and high-pressure and minimal processing methods.

AMS 352-M3. FOOD PROCESSING: UNIT OPERATIONS MODULE 3. (1) *Prerequisite: AMS 352-M2.* An overview of unit operations and processing techniques used in food processing industry. Topics include thermal processing, low temperature preservation, dehydration, irradiation, enzyme technology, separation and concentration, evaporation and distillation, and high-pressure and minimal processing methods.

AMS 355. SYSTEMS DESIGN. (3) *Prerequisite: MATH 116.* A comprehensive study of manufacturing organizations and their administration involving facilities layout, design of work systems, forecasting and decision making, planning for facilities and equipment. (Note: This course is for the Technology Management major or non-AMS majors.)

AMS 356. SYSTEMS DESIGN AND OPERATION. (3) *Prerequisites: AMS 271.* A study of manufacturing organizations and their administration, facilities layout, work systems, forecasting and decision making. Applications of resource planning determining product demand, controlling inventory, goods and services. ***Course Fee***

AMS 356-M1. SYSTEMS DESIGN AND OPERATION MODULE 1. (1) *Prerequisites: AMS 271 or AMS 271-M3.* A study of manufacturing organizations and their administration, facilities layout, work systems, forecasting and decision making. Applications of resource planning determining product demand, controlling inventory, goods and services.

AMS 356-M2. SYSTEMS DESIGN AND OPERATION MODULE 2. (1) *Prerequisites: AMS 356-M1.* A study of manufacturing organizations and their administration, facilities layout, work systems, forecasting and decision making. Applications of resource planning determining product demand, controlling inventory, goods and services. ***Course Fee***

AMS 356-M3. SYSTEMS DESIGN AND OPERATION MODULE 3. (1) *Prerequisites: AMS 356-M2.* A study of manufacturing organizations and their administration, facilities layout, work systems, forecasting and decision making. Applications of resource planning determining product demand, controlling inventory, goods and services.

AMS 363. ARCHITECTURE DOCUMENTATION II. (3) *Prerequisites: AMS 263 with grade of "C" or better; AMS 273 with a grade of "C" or better, AMS 305.* Planning and producing commercial construction drawings. Commercial construction standards and codes; building materials research and specification. ***Course Fee***

AMS 367. SUPERVISED WORK EXPERIENCE IN INDUSTRY. (1-6) *Prerequisite: Advisor* approval required. Supervised employment in industry. Written reports required. ***Course Fee***

AMS 368. PROBLEM SOLVING. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. An application oriented introduction to basic analytical tools for the solution of practical problems. Focusing on developing qualitative and quantitative literacy and analytic skills, the emphasis will be on data analysis, graphic communication and simple experiments applied to real problems. ***Course Fee | Colonnade K-SY***

AMS 368-M1. PROBLEM SOLVING MODULE 1. (1) *Prerequisite: Junior status.* An application oriented introduction to basic research of practical industrial problems. Development, information gathering, data collection, and literature review on real technological problems.

AMS 368-M2. PROBLEM SOLVING MODULE 2. (1) *Prerequisite: AMS 368-M1 with a grade of B or better.* Introduction to basic analytical tools applied to practical industrial problems. Critical evaluation, assessment, scientific analysis, graphical representation and root cause exploration of real technological problems.

AMS 368-M3. PROBLEM SOLVING MODULE 3. (1) *Prerequisite: AMS 368 M2 with a grade of B or better.* Presentation of solutions for practical industrial problems. Comprehensive reporting and presentation of multiple approaches to real technological problems using scientific justification.

AMS 369. ARCHITECTURAL DESIGN STUDIO I. (4) *Prerequisite: AMS 263.* Design processes using architectural projects as case studies, design experience includes schematic design, program development, design methodologies, graphic and verbal communication skills, and environmental influences on building design: geographic location, daylighting, natural ventilation, size and shape. Lecture and laboratory. ***Course Fee***

AMS 370. COMPUTER NUMERICAL CONTROL. (3) *Prerequisite: AMS 227 or consent of the instructor.* Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers. Lecture and laboratory. ***Course Fee***

AMS 370-M1. COMPUTER NUMERICAL CONTROL MODULE 1. (1) *Prerequisite: AMS 227 or AMS 227-M3.* Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers.

AMS 370-M2. COMPUTER NUMERICAL CONTROL MODULE 2. (1) *Prerequisite: AMS 370-M1.* Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers. ***Course Fee***

AMS 370-M3. COMPUTER NUMERICAL CONTROL MODULE 3. (1) *Prerequisite: AMS 370-M2.* Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers.

AMS 371. QUALITY ASSURANCE. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D & 414. Quality organizations and standards. ***Course Fee***

AMS 371-M1. QUALITY ASSURANCE MODULE 1. (1) A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D & 414. Quality organizations and standards.

AMS 371-M2. QUALITY ASSURANCE MODULE 2. (1) A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D & 414. Quality organizations and standards. ***Course Fee***

AMS 371-M3. QUALITY ASSURANCE MODULE 3. (1) A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D & 414. Quality organizations and standards.

AMS 372. COMMERCIAL ARCHITECTURAL FLOOR PLANNING. (3) *Prerequisite: AMS 263.* Planning and drawing small commercial buildings with CAD and conventional techniques, study of specifications, identification of sources of materials, acceptable design and drafting techniques emphasized. Lecture and Laboratory. ***Course Fee***

AMS 375. SPECIAL ARCHITECTURAL PROBLEMS. (3) A research project is required that includes a written report and an innovative design of a non-standard dwelling done on CAD or with conventional drafting tools. Lecture and laboratory. ***Course Fee***

AMS 378. ARCHITECTURAL / PROFESSIONAL PRESENTATION. (3) *Prerequisites: AMS 369.* Techniques to present an idea, concept, architectural design, and individual talents. Techniques include architectural modeling, both physical and virtual; presentation graphics; virtual walk-through and fly-by; portfolio design; and web page development. Lecture and laboratory. ***Course Fee***

AMS 380. INDEPENDENT STUDY IN INDUSTRIAL SCIENCES. (3*) Prerequisites: Junior standing. Special permission required prior to enrollment.* This course is designed for the undergraduate student who would like to study different aspects of technology that may or may not be included in existing formal courses of instruction. Both the theoretical and empirical parts of the investigation will be reported in a formal document. ***Course Fee***

AMS 381. FOOD QUALITY ASSURANCE. (3) *Prerequisite: AMS 301 or BIOL 207.* Theory and application of quality assurance programs for the food processing industry, with emphasis on good manufacturing practices, sanitation programs, and audits. ***Course Fee***

AMS 385. FURNITURE DESIGN AND CONSTRUCTION. (3) *Prerequisite: AMS 103.* The design, fabrication and finishing of a furniture product with emphasis on appropriate jointery, design elements and principles and the appropriate use of wood products. ***Course Fee***

AMS 389. COOPERATIVE WORK EXPERIENCE. (3) Co-op credit may be earned in most technology programs. Students must be registered for credit and work with Cooperative Education in the Career Services Center and coordinate plans with their area advisor.

AMS 390. PROJECT MANAGEMENT. (3) *Prerequisite: Junior standing and AMS major and MATH 116 with a grade of "C" or better.* Core concepts of project management based on processes of initiating, planning, executing, controlling, and closing projects. Topics include project proposals, project selection, scope definition, CPM and PERT scheduling, budgeting, control techniques and project manager skills. ***Course Fee***

AMS 390-M1. PROJECT MANAGEMENT MODULE 1. (1) *Prerequisite: Junior standing or AMS major.* Core concepts of project management based on processes of initiating, planning, executing, controlling, and closing projects. Topics include project proposals, project selection, scope definition, CPM and PERT scheduling, budgeting, control techniques and project manager skills.

AMS 390-M2. PROJECT MANAGEMENT MODULE 2. (1) *Prerequisite: AMS 390-M1.* Core concepts of project management based on processes of initiating, planning, executing, controlling, and closing projects. Topics include project proposals, project selection, scope definition, CPM and PERT scheduling, budgeting, control techniques and project manager skills. ***Course Fee***

AMS 390-M3. PROJECT MANAGEMENT MODULE 3. (1) *Prerequisite: AMS 390-M2.* Core concepts of project management based on processes of initiating, planning, executing, controlling, and closing projects. Topics include project proposals, project selection, scope definition, CPM and PERT scheduling, budgeting, control techniques and project manager skills.

AMS 394. LEAN AND SUPPLY CHAIN SYSTEMS (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* Applications of lean and supply chain system principles across disciplines. This is the enhancement of customer value and the elimination and reduction of all forms of waste from supplier to end user. ***Course Fee***

AMS 394-M1. LEAN MANUFACTURING MODULE 1. (1) Introduction to the production system and the role of inventory, market characterization, aggregate planning, lean manufacturing and the just-in-time philosophy.

AMS 394-M2. LEAN MANUFACTURING MODULE 2. (1) *Prerequisite: AMS 394-M1.* Introduction to the production system and the role of inventory, market characterization, aggregate planning, lean manufacturing and the just-in-time philosophy. ***Course Fee***

AMS 394-M3. LEAN MANUFACTURING MODULE 3. (1) *Prerequisite: AMS 394-M2.* Introduction to the production system and the role of inventory, market characterization, aggregate planning, lean manufacturing and the just-in-time philosophy.

AMS 395. FUNDAMENTLALS OF HACCP. (3) *Prerequisite: AMS 301.* Development and implementation of the Hazard Analysis and Critical Control Point (HACCP) system and its application in the food processing industry.

AMS 396. INTRODUCTION TO SUPPLY CHAIN MANAGEMENT. (3) *Prerequisite: MATH 116 with a grade of "C" or better, or MATH 117 or better.* Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems. ***Course Fee***

AMS 396-M1. INTRODUCTION TO SUPPLY CHAIN MANAGEMENT MODULE 1. (1) Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems.

AMS 396-M2. INTRODUCTION TO SUPPLY CHAIN MANAGEMENT MODULE 2. (1) *Prerequisite: AMS 396-M1.* Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems. ***Course Fee***

AMS 396-M3. INTRODUCTION TO SUPPLY CHAIN MANAGEMENT MODULE 3. (1) *Prerequisite: AMS 396-M2.* Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems.

AMS 398. INTERNSHIP I. (1) *Prerequisite: 15 semester hours in Industrial Sciences or junior standing with permission of the instructor.* Advisor approved, discipline-specific internship requiring 200 hours of work experience in business or industry. ***Course Fee***

AMS 399. INTERNSHIP II. (1) *Prerequisite: AMS 398.* Advisor approved, discipline-specific internship requiring 200 hours of work experience in business or industry. ***Course Fee***

AMS 401. CONTEMPORARY ISSUES IN ARCHITECTURE AND MANUFACTURING. (1) *Prerequisite: Senior standing.* Contemporary issues reflecting current and emerging technologies, policies and practices in architecture and manufacturing will be studied. Guest presenters from business and industry will be presenting lectures. Students will prepare a series of papers representing their own investigation.

AMS 410. INDUSTRIAL SCIENCE PROBLEMS. (3) *Prerequisites: Senior or graduate standing in Industrial Education, and special permission.* This course provides an opportunity for individual study and / or research relative to problems in industrial education. Prior approval necessary before registering for this course.

AMS 417. ADVANCED MANUFACTURING MATERIALS. (3) *Prerequisites: AMS 217, 227, or consent of the instructor.* Survey of advanced materials science concepts and their applications to the production of manufacturing materials. Includes the effect of different materials processing techniques on property-microstructure-process interactions, and how they affect the manufacturing concepts. Lecture and laboratory. ***Course Fee***

AMS 427. ADVANCED MANUFACTURING PROCESSES. (3) *Prerequisite: AMS 227.* A descriptive study of advanced manufacturing processes and production equipment with laboratory experimentation in forming, solidification and material removal processes. Lecture and laboratory. ***Course Fee***

AMS 430. TECHNOLOGY MANAGEMENT / SUPERVISION / TEAM BUILDING. (3) *Prerequisite: Junior standing.* This course will provide an introduction to the fundamentals of industrial supervision. Students will develop the skills, knowledge, and philosophies required to function in a highly technical, industrial environment in a supervisory capacity. Content includes a study of leadership, management, management-labor relations, supervisory intuition, and various legal issues. ***Course Fee***

AMS 430-M1. TECHNOLOGY MANAGEMENT / SUPERVISION / TEAM BUILDING MODULE 1. (1) *Prerequisite: Junior standing.* This course will provide an introduction to the fundamentals of industrial supervision. Students will develop the skills, knowledge, and philosophies required to function in a highly technical, industrial environment in a supervisory capacity. Content includes a study of leadership, management, management-labor relations, supervisory intuition, and various legal issues.

AMS 430-M2. TECHNOLOGY MANAGEMENT / SUPERVISION / TEAM BUILDING MODULE 2. (1) *Prerequisite: AMS 430-M1.* This course will provide an introduction to the fundamentals of industrial supervision. Students will develop the skills, knowledge, and philosophies required to function in a highly technical, industrial environment in a supervisory capacity. Content includes a study of leadership, management, management-labor relations, supervisory intuition, and various legal issues. ***Course Fee***

AMS 430-M3. TECHNOLOGY MANAGEMENT / SUPERVISION / TEAM BUILDING MODULE 3. (1) *Prerequisite: AMS 430-M2.* This course will provide an introduction to the fundamentals of industrial supervision. Students will develop the skills, knowledge, and philosophies required to function in a highly technical, industrial environment in a supervisory capacity. Content includes a study of leadership, management, management-labor relations, supervisory intuition, and various legal issues.

AMS 435. SUPERVISED STUDENT TEACHING IN VOCATIONAL, INDUSTRIAL, AND TECHNICAL EDUCATION. (4) Observation, participation, and supervised teaching in vocational, industrial, and technical education. ***Course Fee***

AMS 443. FOOD PACKAGING. (3) *Prerequisite: AMS 301.* Principles of packaging science and technology, packaging materials, machinery and equipment, and packaging requirements applied to preservation and distribution of food products.

AMS 452. PRODUCTION WOODWORKING. (3) *Prerequisite: AMS 103.* The design, planning, and tooling for mass production of a moderately complex wood product. Students participate in a group mass production endeavor. Lecture and laboratory. ***Course Fee***

AMS 462. COMMODITY FOOD PROCESSING. (3) *Prerequisite: AMS 352.* Principles of food processing, stages and operations, and product formulations for processing and manufacturing different categories of food products such as beverages, cereals, dairy, meats and poultry, and fruits and vegetables. ***Course Fee***

AMS 463. ARCHITECTURE DOCUMENTATION III. (3) *Prerequisites: AMS 282; AMS 363 with a grade of "C" or higher; AMS 325.* Advanced planning and producing commercial construction drawings relating to additions, renovations, and demolition. Commercial construction standards and codes; building materials research and specification; systems coordination. ***Course Fee***

AMS 469. ARCHITECTURAL DESIGN STUDIO II. (4) *Prerequisites: AMS 273 (formerly AMS 373), 282, 325, 369 (formerly 360).* Advanced analysis, synthesis, and appraisal techniques responding to contemporary architectural issues. Theory and practice of architecture as art and science. In-depth studio experience in: schematic design and design development; selection and conceptual design of structural systems; mechanical and electrical systems; materials and connective systems, specifications and building costs with focus on sustainable design. Lecture and laboratory. (Note: Course pass required.) ***Course Fee***

AMS 470. LAND DEVELOPMENT. (4) *Prerequisites: AMS 273.* Land development in terms of promoting: a community, human well-being, environmental sustainability, green space and economic growth. Site analysis, climatic and regional analysis, cultural and contextual analysis, and human pattern language will be investigated and applied. Lecture and laboratory. (Note: Course pass required.) ***Course Fee***

AMS 471. DESIGN OF INDUSTRIAL EXPERIMENTS. (3) *Prerequisites: AMS 271; AMS 371.* Survey of statistical experimentation methods to improve quality of products and processes in industry. Includes the planning for design of experiments and quality tools that will be involved, designing the experiments with an understanding of different types of factors and, important aspects of running the experiments and analysis of data.

AMS 475. SELECTED TOPICS IN INDUSTRY. (1-3) *Prerequisite: Junior standing.* Varying topics of significant interest and current developments in manufacturing technology. ***Course Fee***

AMS 480. INTRO TO COMPUTER INTEGRATED MANUFACTURING. (3) *Prerequisite: AMS 370.* A survey of automation as it relates to manufacturing including numerical control systems, robotics, computer-assisted production, and other automated systems. ***Course Fee***

AMS 488. COMPREHENSIVE DESIGN. (3) *Prerequisites: AMS 363, 369, senior standing, and consent of instructor.* . Identification and collaboration with a real world client, architectural proposals, project programmatic requirements, project research, site analysis, building codes and regulations, professional portfolio. ***Course Fee***

AMS 489. COOPERATIVE EDUCATION. (3) Co-op credit may be earned in most technology programs. Students must be registered for credit and work with Cooperative Education in the Career Services Center and coordinate plans with their area advisor.

AMS 490. SENIOR RESEARCH. (3) *Prerequisite: Consent of the instructor.* Students work on capstone research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for a specific client or local industry. Lecture and laboratory. ***Course Fee***

AMS 490A. SENIOR RESEARCH FOR ARCHITECTURAL SCIENCES. (3) *Prerequisite: AMS 363 with a grade of "C" or better, AMS 488 with a grade of "C" or better.* Students work on capstone research projects utilizing skills and knowledge from prior courses in the Architectural Sciences program. Projects in this course will simulate real life projects encountered in industry.

AMS 490B. SENIOR RESEARCH FOR CONSTRUCTION MANAGEMENT. (3) *Prerequisite: CM 250 with a grade of "C" or better, CM 363 with a grade of "C" or better, AMS 390 with a grade of "C" or better. Prerequisite / Corequisite: CM 462.* Students work on capstone research projects utilizing skills and knowledge from prior courses in the Construction Management program. Projects in this course will simulate real life projects encountered in industry.

AMS 490E. SENIOR RESEARCH FOR MANUFACTURING ENGINEERING TECHNOLOGY. (3) *Prerequisite: AMS 356 with a grade of "C" or better, AMS 390 with a grade of "C" or better, AMS 370 with a grade of "C" or better. Prerequisite / Corequisite: AMS 394* Students work on capstone research projects utilizing skills and knowledge from prior courses in the Manufacturing Engineering Technology program. This is a lecture lab course that will incorporate all aspects of manufacturing in a simulated facility.

AMS 490F. SENIOR RESEARCH FOR TECHNOLOGY MANAGEMENT. (3) *Prerequisite: AMS 356 with a grade of "C" or better, AMS 390 with a grade of "C" or better, AMS 370 with a grade of "C" or better. Prerequisite / Corequisite: AMS 394.* Students work on capstone research projects utilizing skills and knowledge from prior courses in the Technology Management program. Projects performed when possible will be for a specific client or industry. This course will require an approved course proposal prior to being able to register.

AMS 490-M1. SENIOR RESEARCH MODULE 1. (1) *Prerequisite: Consent of the instructor.* Students work on research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for local industry.

AMS 490-M2. SENIOR RESEARCH MODULE 2. (1) *Prerequisite: AMS 490-M1 or consent of the instructor.* Students work on research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for local industry. ***Course Fee***

AMS 490-M3. SENIOR RESEARCH MODULE 3. (1) *Prerequisite: AMS 490-M2 or consent of the instructor.* Students work on research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for local industry

AMS 495. ACOUSTIC GUITAR CONSTRUCTION. (4) *Prerequisite: AMS 103.* Deals with the design and fabrication of a steel string or classical guitar and related tooling using the Haile method of construction. Lecture and laboratory. ***Course Fee***

ANSC – ANIMAL SCIENCE
DEPARTMENT OF AGRICULTURE

ANSC 130. INTRODUCTION TO HORSE SCIENCE. (2) *Corequisite: ANSC 131.* An introductory study of equine science including an overview of the horse industry, anatomy, management, reproduction, nutrition, genetics, behavior and disease.

ANSC 131. INTRODUCTION TO HORSE SCIENCE LABORATORY. (1) *Corequisite: ANSC 131.* Laboratory study of equine science including an overview of the horse industry, anatomy, management, reproduction, nutrition, genetics, behavior and disease. ***Course Fee***

ANSC 140. INTRODUCTION TO ANIMAL SCIENCE. (3) An introduction to the animal industry on a state, national and global basis, basic principles of reproduction and endocrinology, breeding and genetics, animal products and diseases. Emphasis is placed upon farm animal classification.

ANSC 141. INTRODUCTION TO ANIMAL SCIENCE LABORATORY. (1) *Prerequisite or Corequisite: ANSC 140.* A laboratory course correlated with AGRI 140. Laboratories are planned to coincide with lecture topics. ***Course Fee***

ANSC 232. BASIC EQUITATION. (2) For students with little previous experience in horsemanship. Basic disciplines of hunt seat and stock seat horsemanship and selection, care and use of horses and equipment are included. ***Course Fee***

ANSC 240. LIVESTOCK MANAGEMENT. (2) *Prerequisite: ANSC 140. Corequisite: ANSC 241.* A general animal science course offering hands on experience in management of beef cattle, dairy cattle, sheep, swine, and horses.

ANSC 241. LIVESTOCK MANAGEMENT LABORATORY. (1) *Corequisite: ANSC 240.* A laboratory course correlated with ANSC 240. ***Course Fee***

ANSC 330. HORSE PRODUCTION. (2) *Prerequisites: ANSC 140 and 345 or approval of instructor. Corequisite: ANSC 331.* Principles of animal science as they relate to the horse and equine industry, characteristics of breeds, anatomy, nutrition, genetics, reproduction, behavior, training, health, breeding, management, and marketing concepts are presented.

ANSC 331. HORSE PRODUCTION LABORATORY. (1) *Corequisite: ANSC 330.* A laboratory course correlated with ANSC 330. ***Course Fee***

ANSC 333. HORSE TRAINING. (2) *Prerequisites: ANSC 330 / 331 or approval of instructor. Corequisite: ANSC 334.* The student is assigned a horse to train. Techniques for halter-breaking, gentling, grooming, lunging, saddling, driving and riding the untrained horse are included.

ANSC 334. HORSE TRAINING LABORATORY. (1) *Corequisite: ANSC 333.* A laboratory course correlated with ANSC 333.

ANSC 336. CONFORMATION AND PERFORMANCE EVALUATION OF HORSES. (2) *Prerequisite: Approval of instructor.* Evaluation and selection of horses based on conformation and athletic ability, and oral and written defense of evaluations. The importance of environment, records, genetics, and conformation in selection are discussed.

ANSC 338. INTRODUCTORY LIVESTOCK EVALUATION AND SELECTION. (3) *Prerequisite: ANSC 140 or instructor's consent.* Fundamental selection criteria utilized in evaluating beef cattle, hogs, sheep, dairy cattle and horses. Oral and written evaluations are included.

ANSC 340. MEATS AND MEAT PRODUCTS. (3) *Prerequisite: ANSC 140 for agriculture majors.* A non-technical course designed for the average consumer. The role of meats and meat products in human nutrition; meat substitutes; grading and inspection; identification and selection of wholesale and retail cuts of meat; care and storage of meat products are studied. ***Course Fee***

ANSC 344. PHYSIOLOGY AND ANATOMY OF DOMESTIC ANIMALS. (3) *Prerequisites: BIOL 120 and ANSC 140.* Physiology and anatomy as related to livestock production, nutrition and disease emphasizing digestive, reproductive and endocrine systems.

ANSC 345. PRINCIPLES OF ANIMAL NUTRITION. (3) *Prerequisites: ANSC 140, BIOL 120 and CHEM 107 or equivalent.* Principles of nutrition basic to animal feeding; chemistry and physiology of nutrition: nutrient requirements for normal body functions.

ANSC 347. ANIMAL PATHOLOGY. (3) *Prerequisites: ANSC 140 and BIOL 120.* Distribution, nature, manner of dissemination, methods of control, prevention and eradication of infectious and parasitic diseases of domestic animals are discussed.

ANSC 431. DAIRY PRODUCTION. (2) *Prerequisites: ANSC 140 and 345. Corequisite: ANSC 432.* Principles of nutrition and management and their practical application to commercial dairy herds are emphasized.

ANSC 432. DAIRY PRODUCTION LABORATORY. (1) *Corequisite: ANSC 431.* A laboratory course correlated with ANSC 431.

ANSC 437. PHYSIOLOGY OF REPRODUCTION IN DOMESTIC ANIMALS. (2) *Prerequisites: ANSC 140 and BIOL 120. Corequisite: ANSC 438.* Endocrinology and physiology of reproductive systems; anatomical, physiological and biochemical bases of reproduction; factors affecting means of improving efficiency of reproduction, artificial insemination, synchronized estrus and related topics are presented.

ANSC 438. PHYSIOLOGY OF REPRODUCTION IN DOMESTIC ANIMAL LABORATORY. (1) *Corequisite: ANSC 437.* A laboratory course correlated with ANSC 437. ***Course Fee***

ANSC 440. ADVANCED LIVESTOCK EVALUATION AND SELECTION. (3) *Prerequisite: ANSC 338 or instructor's consent.* Genetic and environmental factors involved in selecting beef cattle, hogs, sheep, dairy cattle and horses. Techniques of evaluating the economically important traits of prospective breeding animals are emphasized. Students will participate in intercollegiate competition.

ANSC 442. BEEF PRODUCTION. (2) *Prerequisites: ANSC 140 and 345. Corequisite: ANSC 443.* History and importance of the beef cattle industry; programs and areas of production, selection, breeding, feeding and management and common diseases are included.

ANSC 443. BEEF PRODUCTION LABORATORY. (1) *Corequisite: ANSC 442.* A laboratory course correlated with ANSC 442.

ANSC 444. SWINE PRODUCTION. (2) *Prerequisites: ANSC 140 and 345. Corequisite: ANSC 445.* History and importance of the swine industry; programs and areas of production; selection, breeding, feeding and management; and common diseases are stressed.

ANSC 445. SWINE PRODUCTION LABORATORY. (1) *Corequisite: ANSC 444.* A laboratory course correlated with ANSC 444.

ANSC 446. ANIMAL BREEDING. (2) *Prerequisites: ANSC 140, AGRI 291 and BIOL 120. Corequisite: ANSC 447.* Application of genetic and statistical principles to breeding and improvement of farm animals; the role of selection in changing populations; effect of different mating systems upon improvement of farm animals are investigated.

ANSC 447. ANIMAL BREEDING LABORATORY. (1) *Corequisite: ANSC 446.* A laboratory course correlated with ANSC 446.

ANSC 448. ANIMAL FEEDS AND FEEDING PRACTICES. (4) *Prerequisite: ANSC 345.* Livestock feeds and their nutrients; functions of and requirements for nutrients; evaluation of feeds, feeding practices and formulation of rations for all species of livestock are included; techniques involved in nutrition research; readings in current literature are presented.

ANSC 449. DOMESTIC ANIMAL NUTRITION: PRINCIPLES AND TECHNIQUES. (3) *Prerequisites: ANSC 345, ANSC 448, CHEM 107 or 222 or instructor's consent.* Chemistry and physiology of domestic animal nutrition, nutrient metabolism. Techniques involved in nutrition research, readings in current nutrition literature. Demonstration and practical experience in digestion and balance studies with experience in laboratory methods for proximate analysis, minerals and vitamins.

ANSC 475. SELECTED TOPICS IN AGRICULTURE. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

ANTH – ANTHROPOLOGY
DEPARTMENT OF FOLK STUDIES AND ANTHROPOLOGY

ANTH 120. INTRODUCTION TO CULTURAL ANTHROPOLOGY. (3) Introduction to the cross-cultural study of human behavior and society. Topics normally include environment and food, economics, social and political organization, marriage and family, culture and personality, religion, social movements, and social change. ***Colonnade E-SB | SB***

ANTH 125. INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY. (3) Introduction to primatology, human origins and evolution, modern human biological variation, and other topics of biological anthropology, emphasizing biological adaptations within the framework of evolutionary theory.

ANTH 130. INTRODUCTION TO ARCHAEOLOGY. (3) Introduction to the scientific study of the archaeological record, emphasizing location methods, recovery methods, dating methods, archaeological classification, and interpretative models. ***Colonnade E-SB | SB***

ANTH 135. INTRODUCTION TO LINGUISTIC ANTHROPOLOGY. (3) Introduction to the study of the relations among language, culture, and society. Topics include language origins and history, language and gender, multilingualism, verbal art, and applied linguistic anthropology.

ANTH 300. FORENSIC ANTHROPOLOGY. (3) *Prerequisite: ANTH 125 or BIOL 131 or junior standing.* Analysis of human skeletal remains and other evidence in a medicolegal context, emphasizing bone identification, race and sex determination, age and stature estimation, trauma and pathology assessment, and taphonomy evaluation.

ANTH 305. PALEOANTHROPOLOGY: HUMAN ORGINS AND EVOLUTION. (3) *Prerequisites: ANTH 130 or BIOL 113 or 131 or GEOL 112 or junior standing, 21 hours of Foundations and Explorations Courses or junior status*. Scientific examination of the origins and bio cultural evolution of humans, emphasizing evolutionary theory, evidence for human evolution, long-term trends, important fossil finds and sites, taxonomic classifications, and phylogenetic relationships. ***Colonnade K-SY***

ANTH 316. THE ARCHAEOLOGY OF ENVIRONMENTAL CHANGE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* The archaeological study of the impact of the environment on humans and of humans on the environment. ***Colonnade K-LG***

ANTH 333. THE ARCHAEOLOGY OF ANCIENT CHINA. (3) Culture-historical overview of Ancient China from the Paleolithic to Qin Empire focusing on major anthropological themes in Chinese archaeology and world prehistory.

ANTH 335. OLD WORLD PREHISTORY. (3) A survey of prehistoric indigenous developments in the Old World, focusing on regional adaptations, representative sites and artifacts, food production and complex society, and chronologies.

ANTH 336. NEW WORLD PREHISTORY. (3) Survey of prehistoric indigenous developments in North, Central and South America, focusing on peopling the New World, regional adaptations, representative sites and artifacts, food production and complex society, and chronologies.

ANTH 340. PEOPLES AND CULTURES OF LATIN AMERICA. (3) Study of the history and development of present cultures in Latin America with emphasis on economics, politics, religion, folklife and world view of indigenous, peasant and urban peoples. Equivalent to FLK 340.

ANTH 341. PEOPLE AND CULTURES OF ASIA. (3) Study of the cultures of South, East, and Southeast Asia with emphasis on origins, prehistoric and historic migrations, ecology, and subsistence patterns, and the origins and evolution of the major civilizations of India, China, Japan, and Vietnam. Topics include kinship and the family, religion, social organization, gender, economy, colonialism and independence, globalization and development, and maintenance of traditions in modern contexts. Equivalent to FLK 341.

ANTH 342. PEOPLES AND CULTURES OF THE CARIBBEAN. (3) Examination of the variety of cultural practices and social conditions found in modern-day Caribbean societies with attention to historical roots. Topics include, but are not limited to, definition of the region, religious practices, festivals, musical traditions, migration, and everyday social life and conditions. Equivalent to FLK 342.

ANTH 343. ANTHROPOLOGY OF GENDER. (3) A comparative study of the role gender plays in various aspects of culture. Topics include distribution of labor, environmental impact, and ideological constraints on gender constructs in a cross-cultural concept.

ANTH 345. PEOPLES AND CULTURES OF NATIVE NORTH AMERICA. (3) Survey of the cultures of the original peoples of North America, with emphasis on the ethnographic present. Equivalent to FLK 345.

ANTH 350. PEOPLES AND CULTURES OF AFRICA. (3) Survey of the cultures of Africa, with emphasis on historical development and contemporary cultural diversity. Equivalent to AFAM / FLK 350.

ANTH 360. APPLIED ANTHROPOLOGY – UNDERSTANDING AND ADDRESSING CONTEMPORARY HUMAN PROBLEMS. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* History and development of applied anthropology emphasizing identification of and solutions to social, economic, ecological, and technological problems. ***Colonnade K-SC***

ANTH 366. SPECIAL TOPICS IN ANTHROPOLOGY. (3) Opportunity for in-depth examination of anthropological topics of current disciplinary and student interest. Repeatable with different course topics for a maximum of 9 hours of credit.

ANTH 378. SOUTHERN APPALACHIAN FOLKLIFE. (3) Folklife of southern Appalachia, as reflected in the material folk culture, in traditional folk customs and practices, legends, anecdotes, songs, language, and literature. Equivalent to FLK 378.

ANTH 382. MEDICAL ANTHROPOLOGY. (3) Cross-cultural examination of definitions of health and wellness, attitudes towards and cultural construction of illness, treatments for disease and aging. Particular emphasis on examples from non-Western societies.

ANTH 388. FOODWAYS. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Exploration of the relationship between food and culture. Equivalent to FLK 388. ***Colonnade K-LG***

ANTH 395. LABORATORY PRACTICUM IN ARCHAEOLOGY OR BIOLOGICAL ANTHROPOLOGY. (3) *Prerequisites: ANTH 125 for biological anthropology practicum, ANTH 130 for archaeology practicum, ANTH / FLK 470 for educational displays practicum, or consent of instructor. Course pass required.* Practical experience in artifact accession, inventory, curation and documentation or in preparation of educational displays using archaeological and biological collections at the WKU Anthropology Lab. Repeatable for 9 hours, 3 of which may count in the first 30 hours in the major or 21 hours of the minor. (Grading: Pass / Fail)

ANTH 399. FIELD METHODS IN ETHNOGRAPHY. (3) An examination of the history, theory, techniques, and ethics of ethnographic fieldwork, including practical fieldwork experience. Equivalent to FLK 399.

ANTH 400. ETHNOMUSICOLOGY. (3) Survey of the concepts and methods of ethnomusicology. Topics include history of ethnomusicology, transcription and analysis, musicians, musical instruments, music acculturation, and the function of music in society. Equivalent to FLK 400.

ANTH 410. AFRICAN-AMERICAN MUSIC. (3) A survey of selected musical styles created and developed by African-Americans from the 17th to the 20th century: spirituals, blues, popular music forms (e.g., soul, reggae, rap music). Emphasis will be placed on the historical factors and sociocultural trends that influenced the development of African-American music. Equivalent to AFAM 410 and FLK 410.

ANTH 432. FIELD COURSE IN ARCHAEOLOGY. (1-9) *Prerequisite: ANTH 130 or consent of instructor.* Includes archaeological survey, site mapping, artifact recovery, recording, and cataloging. Work is usually conducted on prehistoric Indian sites. The number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of nine hours of credit.

ANTH 434. GRAVEYARD ARCHAEOLOGY. (3) Application of archaeological methods in the documentation of historic graveyards, emphasizing legal mandates, formation processes, subsurface prospecting, remote sensing, mapping, and headstone recording. Students must arrange own travel to field site(s). May be repeated for a maximum of 6 hours of credit. ***Course Fee***

ANTH 436. APPLIED ARCHAEOLOGY. (3) *Prerequisite: ANTH 130 or consent of instructor.* Examines contract archaeology and public archaeology within the context of cultural resource management, emphasizing legal mandates, field methods, public education programs, and ethics.

ANTH 438. ARCHAEOLOGICAL LAB METHODS. (3) *Prerequisite: ANTH 130 or consent of instructor.* Provides practical experience in the methods and techniques for classifying and analyzing archaeological materials and interpreting the resulting data.

ANTH 442. ECOLOGICAL AND ECONOMIC ANTHROPOLOGY. (3) *Prerequisite: ANTH 120 or junior standing.* Analysis of economic systems and cultural adaptations to the environment of Western and non-Western societies with particular attention paid to the Caribbean and / or Latin America.

ANTH 446. ANTHROPOLOGY OF RELIGION. (3) A cross-cultural examination of religious beliefs and practices. Topics include myth, ritual, shamanism and healing, and the role of religion in social control and social change.

ANTH 448. VISUAL ANTHROPOLOGY. (3) *Prerequisite: Junior level or higher.* This course examines photography and film as tools and products of cross-cultural research with special emphasis on cultural and political biases presented through visual means.

ANTH 449. ETHNOGRAPHIC VIDEO PRODUCTION. (3) *Prerequisite: ANTH 448 or permission of instructor.* Video production as a research methodology in anthropology. Practical exercises and collaborative student projects. Students will produce their own short ethnographic videos. Explores practices of representing cultures through video.

ANTH 450. MODERN HUMAN BIOLOGICAL VARIATION. (3) *Prerequisites: MATH 109 or MATH 116 and one of the following: ANTH 125, BIOL 316, BIOL 327.* Uses evolutionary theory to study biological similarities and differences among living human populations on morphological, skeletal, and molecular levels, emphasizing anthropometry, racial classification, inheritance, population genetics, adaptation, disease, and intelligence.

ANTH 470. MUSEUM PROCEDURES AND PRESERVATION TECHNIQUES. (3) Essential aspects of museums and of preservation, i.e., collecting, preserving, researching, exhibiting, and interpreting material culture. Equivalent to FLK 470.

ANTH 493. ARCHAEOLOGY STEWARDSHIP. (3) *Prerequisites: Course pass, ANTH 130, and at least six additional hours in anthropology.* Field monitoring, assessment, and documentation of the integrity of local archaeological sites threatened by cultural and natural formation processes. Students must arrange own travel to field sites. May be repeated for a maximum of 6 hours of credit.

ANTH 495. DIRECTED STUDY. (1-4) *Prerequisites: Junior standing and consent of department head. Course pass required.* Available to superior students who wish to conduct individual, intensive reading and research in a specific area of anthropology in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged. Number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of 8 hours of credit.

ANTH 499. SENIOR SEMINAR. (1) *Prerequisites: ANTH 120, 125, 130, 135, and any other course in ANTH. Additional enrollment requirements: Junior or senior standing, restricted to anthropology majors.* Seminar on anthropological concepts and theories, current topics and developments in the discipline, anthropology careers and graduate programs, and professional ethics. To be taken in the last year of the student's program of study in anthropology.

ARBC - ARABIC
DEPARTMENT OF MODERN LANGUAGES

ARBC 101. ELEMENTARY ARABIC I. (3) Prepares students to communicate verbally and in writing in simple routine tasks, to understand written or spoken communication on everyday topics and to develop cultural awareness.

ARBC 102. ELEMENTARY ARABIC II. (3). *Prerequisite: ARBC 101 or equivalent.* Continuation on the development of communication skills on everyday topics and of cultural insights. ***Course Fee | Fulfills World Language with a grade of C or better.***

ARBC 201. INTERMEDIATE ARABIC I. (3) *Prerequisite: ARBC 102 or equivalent.* Expansion of communication skills in increasingly complex and varied situations. Emphasis on conversational speaking, presentational writing and speaking, and understanding culturally specific texts and media. ***Fulfills World Language with a grade of C or better.***

ARBC 202. INTERMEDIATE ARABIC II. (3) *Prerequisite: ARBC 201 or equivalent.* Continued expansion of interpersonal communication skills at the intermediate level. Emphasis on increasing comprehension, building of vocabulary, and on presentational modes of speaking and writing. ***Fulfills World Language with a grade of C or better.***

ARBC 301. ADVANCED ARABIC I. (3) *Prerequisite: ARBC 202 or equivalent.* A continued expansion of interpersonal communication skills. Emphasis on improved comprehension, mastery of more complex linguistic structures, and speaking and writing on culturally specific texts and media. ***Fulfills World Language with a grade of C or better.***

ARBC 302. ADVANCED ARABIC II. (3) *Prerequisite: ARBC 301 or equivalent.* A continued expansion of interpersonal communication skills. Emphasis on advanced comprehension, speaking and writing on culturally specific texts and mastery of more complex expressions and linguistic structures. ***Fulfills World Language with a grade of C or better.***

ARBC 306. EXPERIENCING ARABIC ABROAD. (1-3) *Prerequisite: Permission of instructor. Corequisite: Enrollment in supervised language study while abroad.* Supervised language and cultural studies accomplished during a study abroad program. Students will receive transferable credit for language study done during the study abroad program with the approval of instructor. May be repeated once for a maximum of six credit hours. ***Fulfills World Language with a grade of C or better.***

ARBC 310. STRUCTURE OF THE ARABIC LANGUAGE. (3) *Prerequisite: ARBC 102 or two years of high school Arabic. Open to Arabic majors and minors only.* Introduction to Arabic morphology and syntax with an emphasis on applying this knowledge to improving reading comprehension strategies.

ARBC 321. COLLOQUIAL ARABIC. (3) *Prerequisite: ARBC 302 or equivalent.* A course in pronunciation, comprehension and oral expression in colloquial Arabic. Exercises focus on navigating common situations of daily life in an Arabic speaking country. ***Fulfills World Language with a grade of C or better.***

ARBC 322. ARABIC TRANSLATION STUDIES. (3) *Prerequisite: ARBC 302 or equivalent.* A concentrated study of the intricacies and methods of Arabic translation work (both Arabic to English and English to Arabic) and the responsibilities of the professional translator. ***Fulfills World Language with a grade of C or better.***

ARBC 323. ARABIC CIVILIZATION I. (3) *Prerequisite: ARBC 302 or equivalent.* A survey course in early Arab history, culture and religion, from the pre-Islamic period through the eighteenth century Taught in Arabic. ***Fulfills World Language with a grade of C or better.***

ARBC 324. ARABIC CIVILIZATION II. (3) *Prerequisite: ARBC 302 or equivalent.* A survey course in later Arab history, culture and religion, from the eighteenth century to the present. Taught in Arabic. ***Fulfills World Language with a grade of C or better.***

ARBC 389. INTERNSHIP IN ARABIC. (1-3) *Prerequisite: Permission of the instructor.* Supervised work using Arabic in a professional setting. Only open to Arabic majors or minors. Repeatable up to six credit hours. ***Fulfills World Language with a grade of C or better.***

ARBC 418. BUSINESS ARABIC. (3) *Prerequisite: ARBC 302 or three years of high school Arabic.* Develops the specific vocabulary and communication skills, as well as cultural knowledge essential for a career in business in the Arab world.

ARBC 435. ARABIC LITERATURE. (3) *Prerequisite: ARBC 302 or equivalent.* Reading of Arabic texts from the pre-Islamic period to the 20th century representing the major genres and movements of Arabic literature. ***Fulfills World Language with a grade of C or better.***

ARBC 436. QUR'ANIC ARABIC. (3) *Prerequisite: ARBC 302 or three years of high school Arabic. Open to Arabic majors and minors only.* Detailed reading and analysis of selected suras from the Qur'an in Arabic, with a focus on the distinctive grammar, vocabulary and structure of Qur'anic Arabic.

ARBC 437. ADVANCED MEDIA ARABIC. (3) *Prerequisite: ARBC 302 or equivalent.* Study of Arabic media reporting in written, audio and video formats, focusing on political, economic and security issues in their cultural contexts. ***Fulfills World Language with a grade of C or better.***

ARBC 438. TOPICS IN ARABIC MEDIA. (3) *Prerequisite: ARBC 302 or equivalent.* An advanced study of Arabic media reporting in written, audio and video formats, focusing on social, ideological and cultural issues in their cultural contexts. ***Fulfills World Language with a grade of C or better.***

ARBC 455. TOPICS IN ARABIC LITERATURE AND CULTURE. (3) *Prerequisite: ARBC 302 or equivalent.* Reading of Arabic texts on selected themes of cultural and literary interest. Topics may change with each iteration of the course. ***Fulfills World Language with a grade of C or better.***

ARBC 357. ARABIC FOR INTERNATIONAL SERVICE. (3) *Prerequisite: ARBC 302 or three years of high school Arabic.* Develops the specific vocabulary and communication skills essential for a career in diplomacy, government service, or humanitarian service in the Arab world.

ARBC 499. ADVANCED STUDIES IN ARABIC. (1-4) *Prerequisite: Permission of the instructor.* Guided independent study in culture, language, or literature of the Arab world. May be used with prior consent of full-time program faculty for work conducted during study abroad. Repeatable for a maximum of six credit hours. ***Fulfills World Language with a grade of C or better.***

ARC - ASIAN RELIGIONS AND CULTURES
DEPARTMENT OF PHILOSOPHY AND RELIGION

ARC 100. INTRODUCTION TO ASIAN STUDIES. (3) Survey of the cultures of one or more regions in Asia. ***Colonnade E-AH | AH***

ARC 401. TOPICS IN ASIAN RELIGIONS AND CULTURES. (3) A seminar focusing on a specific element of Asian religions or cultures.

ARC 498. STUDY IN ASIAN RELIGIONS AND CULTURES. (3) *Prerequisite: Consent of instructor.* Directed study and research in Asian religions and cultures.

ARC 499. SENIOR SEMINAR. (1) *Prerequisites: Senior standing and major in Asian religions and cultures or consent of instructor.* A capstone designed for Asian religions and cultures majors. Students will complete projects that demonstrate their research, writing, and analytical skills.

ART
DEPARTMENT OF ART (ART)

ART HISTORY

ART 100. ART APPRECIATION. (3) An introductory study of the visual arts. ***Colonnade E-AH | AH***

ART 105. HISTORY OF ART TO 1300. (3) A selective chronological study of the visual arts from prehistoric through gothic times. The course is designed as an introduction to the basic terminology and problems of art history and to methods of analyzing and interpreting individual works of art. ***Colonnade E-AH | AH***

ART 106. HISTORY OF ART SINCE 1300. (3) A selective chronological study of the major visual arts from renaissance through modern times. ***Colonnade E-AH | AH***

ART 305. ANCIENT GREEK AND ROMAN ART (3) *Prerequisite: ART 105 or permission of the instructor.* Investigation of the artistic heritage of Ancient Greece and Rome from the Bronze Age to 476 CE.

ART 312. ART OF THE UNITED STATES TO 1865. (3) *Prerequisite: ART 106 or permission of the instructor.* A survey of art and architecture of the United States from its beginnings to the end of the Civil War.

ART 313. ART OF THE UNITED STATES SINCE 1865. (3) *Prerequisite: ART 106 or permission of the instructor.* A survey of art and architecture in the United States from the Civil War to the present day.

ART 314. SOUTHERN BAROQUE ART. (3) *Prerequisite: ART 106 or permission of instructor.* A survey of art and architecture of Italy and Spain of the seventeenth century.

ART 315. NORTHERN BAROQUE ART. (3) *Prerequisite: ART 106 or permission of instructor.* A survey of the art and architecture of northern Europe of the seventeenth century with an emphasis on Dutch, Flemish, and French traditions.

ART 316. MEDIEVAL ART & ARCHITECTURE. (3) *Prerequisite: ART 105 or permission of instructor.* A study of the art and architecture of Europe from the early third century through the fourteenth century.

ART 317 ART AND POWER. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* A systematic consideration of the means through which the visual arts embody and promote ideologies and shape human societies. ***Colonnade K-SY***

ART 318 ART AND LANDSCAPE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses or junior status.* Critical examination of the theme of landscape in the visual arts. ***Colonnade K-LG***

ART 325. ART OF ASIA, AFRICA, AND THE AMERICAS. (3) *Prerequisites: ART 105 or ART 106, or junior standing with permission of instructor.* Visual arts of indigenous cultures from four continents: Asia, the Americas and Africa.

ART 390. CONTEMPORARY ART. (3) *Prerequisite: ART 106 or permission of the instructor.* Consideration of the diverse influences, developments, and trends in the visual arts since World War II.

ART 401. ART OF THE ITALIAN RENAISSANCE. (3) *Prerequisites: ART 105, 106.* This course analyzes the architecture, sculpture and painting of the Italian Renaissance with emphasis on the examination of selected examples.

ART 403. NORTHERN RENAISSANCE ART. (3) *Prerequisite: ART 106 or permission of instructor.* A study of Netherlandish, German, and French art from late 14th through 16th centuries. Emphasis is placed upon the work of such major figures as van Eyck, van der Weyden, van der Goes, Bosch, Bruegel, Gruenewald, and Durer.

ART 405. ART THEORY AND CRITICISM. (3) *Prerequisites: ART 105, 106.* A study of major theories of art, both historical and contemporary, and of various approaches to making qualitative judgments about individual works of art.

ART 407. ISLAMIC ART AND ARCHITECTURE. (3) *Prerequisite: ART 105, or RELS 305, or RELS 320, or permission of the instructor.* A survey of art and architecture in the Islamic world from 622 through the present day.

ART 408. EUROPEAN ART, 1700-1848. (3) *Prerequisite: ART 106 or permission of instructor.* Examines the visual arts of eighteenth and early nineteenth century Europe including movements and styles such as Rococo, Neoclassicism, and Romanticism.

ART 409. EUROPEAN ART, 1848-1900. (3) *Prerequisite: ART 106 or permission of instructor.* Examines the visual arts of mid to late nineteenth century Europe including movements and styles such as Realism, Impressionism, and Post-Impressionism.

ART 410. EUROPEAN ART, 1900-1945. (3) *Prerequisite: ART 106 or permission of instructor.* Examines the visual arts of Europe from the beginning of the twentieth century until the end of World War Two.

ART 445. AMERICAN ARCHITECTURAL HISTORY. (3) An interdisciplinary survey of American architectural history, including trends and styles, architect designed and manufactured structures and elements, and the social history of American architecture. Equivalent to FLK 445.

ART 494. SEMINAR IN ART HISTORY. (3) *Prerequisites: ART 105, 106, and one other art history course.* An examination of a selected period, movement, or artist which relates historical, formalistic, and theoretical approaches. Emphasis is placed upon accurate observation, critical judgment, and effective communication of ideas. May be repeated once for a total of six hours.

ART EDUCATION

ART 310. ART EDUCATION IN THE ELEMENTARY SCHOOL. (3) *Prerequisite: Junior standing.* A requirement for elementary education majors, this course studies the materials, methods and functions of art in the elementary curriculum through the use of lectures, readings, observations and selected studio problems.

ART 311. FOUNDATIONS OF ART EDUCATION AND METHODS I. (3) *Prerequisites: EDU 250, ART 105 or ART 106, and junior standing; or permission of instructor.* An introductory course for theoretical as well as practical foundations of elementary and / or middle school art education methods. Field experience will be required. Students are responsible for arranging their own transportation to designated or assigned sites. ***Course Fee***

ART 411. FOUNDATIONS OF ART EDUCATION AND METHODS II. (3) *Prerequisites: EDU 250, PSY 310, SPED 330, and ART 311 – each with grades of "C" or higher.* This second art education methods course provides diverse experiences related to art education theory and practice in elementary, middle, and high schools. Field experiences in public schools outside the regular class sessions required. Students are responsible for arranging their own transportation to designated or assigned sites. ***Course Fee***

ART 413. FOUNDATIONS OF ART EDUCATION AND METHODS III. (3) *Prerequisites: ART 411 with a grade of "C" or higher and senior standing; or permission of instructor.* Long-term curriculum design assessment and classroom management methods appropriate for visual arts instruction in middle and high schools. Field experience is required. Students are responsible for arranging their own transportation. ***Course Fee***

FOUNDATION COURSES

ART 130. TWO-DIMENSIONAL DESIGN. (3) This course is an introduction to the elements and principles of design and their creative application in two-dimensional design problems. ***Course Fee***

ART 131. THREE-DIMENSIONAL DESIGN. (3) An introduction to the elements and principles of three-dimensional design through problems using natural and synthetic materials. ***Course Fee***

ART 230. COLOR CONCEPTS. (3) *Prerequisites: ART 140, 130.* This course deals with concepts and applications of color in assigned two-dimensional problems.

DRAWING COURSES

ART 140. DRAWING. (3) This course introduces the fundamentals of drawing with emphasis on line, perspective or rendering. Course content is derived from still life, landscape and figure. ***Course Fee***

ART 240. DRAWING. (3) *Prerequisite: ART 140.* This course introduces the student to specific problems in composition. ***Course Fee***

ART 340. DRAWING. (3) *Prerequisite: ART 240.* Composition and exploration of different media and techniques are emphasized in drawing from still life arrangements, landscapes or figure. ***Course Fee***

ART 341. DRAWING. (3) *Prerequisite: ART 340.* Advanced drawing is provided in this course, with continued emphasis on composition and technique. ***Course Fee***

ART 440. DRAWING. (3) *Prerequisite: ART 341.* Advanced drawing explorations through individual problem solving. ***Course Fee***

COMPUTER ANIMATION COURSES

ART 244. COMPUTER ANIMATION I. (3) *Prerequisites: Permission of instructor.* This introductory course initiates students to the creative possibilities of 3D computer animation platform.

ART 344. COMPUTER ANIMATION II. (3) *Prerequisites: ART 244 or permission of instructor.* Designed for students who are experienced with basic 3D animation to introduce more sophisticated concepts and techniques of 3D computer animation.

ART 444. COMPUTER ANIMATION III. (3) *Prerequisites: ART 344 or permission of instructor.* An upper level of 3D computer animation, dedicated to exploring the possibilities of computer animation in a fine-art and experimental context, particularly emphasizes creative experimentation, personal expression based on an interdisciplinary practice aimed at bridging the arts and technologies.

CERAMICS COURSES

ART 220. CERAMICS. (3) *Prerequisites: ART 105 or 106, 131 and 140 (or concurrently with 105 or 106).* An introduction to ceramic art forming and glazing techniques. ***Course Fee***

ART 321. CERAMICS. (3) *Prerequisite: ART 220.* This course emphasizes forming techniques that complement the talents and concepts of intermediate level ceramic art students. ***Course Fee***

ART 420. CERAMICS. (3) *Prerequisite: ART 321.* A continuation of production in clay form and research in experimental clay and glaze composition. ***Course Fee***

ART 421. CERAMICS. (3) *Prerequisite: ART 420.* This course requires advanced individual performance in creative design concepts and in research and recording. ***Course Fee***

ART 422. CERAMICS. (3) *Prerequisite: ART 421.* This course is a continuation of ART 421. ***Course Fee***

ART 423. POTTERY WHEEL TECHNIQUES. (3) *Prerequisite: ART 422.* Development of wheel-thrown shapes that reflect innovative thinking and mature craftsmanship. ***Course Fee***

ART 424. CERAMIC GLAZE COMPOSITION. (3) *Prerequisite: ART 422.* Investigation of the thermal behavior of glaze chemicals and compounds. ***Course Fee***

ART 425. CERAMIC STUDIO EQUIPMENT DESIGN. (3) *Prerequisite: ART 423.* Study of the design and construction of basic studio equipment, including kilns, burners, potters wheels, and slab rollers. ***Course Fee***

ART 426. SPECIAL FIRING TECHNIQUES. (3) *Prerequisite: ART 423.* Experimentation with oxidation and reduction kiln firing techniques including raku, salt, lustre, and bizen. ***Course Fee***

GRAPHIC DESIGN COURSES

ART 231. GRAPHIC DESIGN. (3) *Prerequisites: ART 130 and 140.* This course teaches the fundamentals of applied visual communication in graphic design projects. ***Course Fee***

ART 243. DIGITAL MEDIA. (3) *Prerequisites: ART 130 and ART 140.* Introduction to the use of digital media in the arts through basic investigations of current computer technologies. ***Course Fee***

ART 330. GRAPHIC DESIGN. (3) *Prerequisites: ART 231, junior standing.* While the course uses elements to create forms for public viewing and also emphasizes the use of the student's experience gained in other studio areas, its primary concern is to strengthen the student's aesthetic awareness in graphic design. ***Course Fee***

ART 331. VISUAL THINKING. (3) *Prerequisite: ART 231.* Focuses on the process of lateral thinking and the visualization of design problems and their solutions. Emphasizes effective research, imagination, originality, and execution in various media. ***Course Fee***

ART 334. SURVEY OF GRAPHIC DESIGN. (3) *Prerequisites: ART 105, 106, 231 or approval of instructor.* This course investigates the evolution of graphic design from pre-historic visual communications through the computer graphics revolution.

ART 343. DIGITAL MEDIA: TIME-BASED. (3) *Prerequisite: ART 243.* Exploration of time-based and experimental digital art, including computer animation, interactive multimedia, World Wide Web and emerging applications of computer graphics in visual art. ***Course Fee***

ART 430. GRAPHIC DESIGN. (3) *Prerequisite: ART 330.* A studio course to synthesize the student's previously acquired technical ability and aesthetic awareness into a finished graphic design comprehensive of professional caliber. ***Course Fee***

ART 431. ILLUSTRATION. (3) *Prerequisites: ART 231 and 340, or permission of instructor.* This course stresses the application of various graphic media and techniques to solve problems in illustration. ***Course Fee***

ART 433. PACKAGE DESIGN. (3) *Prerequisites: ART 131 and 330, or consent of instructor. For graphic design minors (reference number 385)*. Techniques and aesthetics of package design. ***Course Fee***

ART 436. ELECTRONIC ILLUSTRATION. (3) *Prerequisite: ART 243 or permission of instructor.* This course provides advanced instruction in popular computer illustration programs such as Adobe Illustration and MacroMedia Freehand for students preparing for careers in graphic design. Limited enrollment. ***Course Fee***

ART 438. ADVANCED COMPUTER GRAPHICS. (3) *Prerequisites: ART 243 and ART 330 or permission of instructor.* Combines artwork and graphic design using the computer to compose printed matter. ***Course Fee***

PRINTMAKING COURSES

ART 250. PRINTMAKING. (3) *Prerequisites: ART 105 or 106, 130, 140 (or concurrently with ART 105 or 106).* This course introduces the student to printmaking through one of the following processes: relief, screen printing, intaglio, lithography, collagraph or monotype. ***Course Fee***

ART 350. PRINTMAKING. (3) *Prerequisite: ART 250.* Emphasizes the development of imagery through one of the following processes: relief, screen-printing, intaglio, lithography, collagraph, monotype or digital. ***Course Fee***

ART 351. PRINTMAKING. (3) *Prerequisite: ART 350.* Continues the student's development of personal imagery and technical proficiency through printmaking. ***Course Fee***

ART 450. PRINTMAKING. (3) *Prerequisite: ART 351.* Stresses advanced printmaking techniques and requires students to have strong personal imagery. ***Course Fee***

ART 451. PRINTMAKING. (3) *Prerequisite: ART 450. Corequisite: ART 452.* Printmaking exploration through research and creative activity. ***Course Fee***

ART 452. PRINTMAKING. (3) *Corequisite: ART 451.* This course consists of advanced research problems in printmaking. ***Course Fee***

ART 453. SENIOR TECHNIQUES IN PRINTMAKING. (3) *Prerequisite: ART 452.* Develops mastery printmaking skills. ***Course Fee***

ART 454. SENIOR COMPOSITION IN PRINTMAKING. (3) *Prerequisite: ART 452.* Exploration of mature personal imagery in printmaking. ***Course Fee***

ART 455. ADVANCED SENIOR TECHNIQUES IN PRINTMAKING. (3) *Prerequisites: ART 453, 454.* Continues the development of master printmaking skills. ***Course Fee***

ART 456. ADVANCED SENIOR COMPOSITION IN PRINTMAKING. (3) *Prerequisites: ART 453, 454.* Continues the exploration of mature personal imagery in printmaking. ***Course Fee***

PAINTING COURSES

ART 260. PAINTING. (3) *Prerequisites: ART 105 or 106, 130 and 140 (or concurrently with 105 or 106).* The purpose of this course is to acquaint students with the fundamental techniques of painting. ***Course Fee***

ART 360. PAINTING. (3) *Prerequisite: ART 260.* This course stresses the creative approach to painting media. Emphasis is placed upon developing and understanding of the materials, principles and techniques inherent in a work of art. Outside reading and pictorial investigations are assigned. ***Course Fee***

ART 361. PAINTING. (3) *Prerequisite: ART 360.* This course requires students to apply knowledge, understanding and skills in painting with increased competence and insight. ***Course Fee***

ART 460. PAINTING. (3) *Prerequisite: ART 361.* Research problems in selected painting materials are provided in this course. ***Course Fee***

ART 461. PAINTING. (3) *Prerequisite: ART 460.* This course consists of advanced individual research problems in painting. ***Course Fee***

ART 462. PAINTING. (3) *Prerequisite: ART 461.* This course is a continuation of 461 Painting. ***Course Fee***

ART 463. SENIOR PAINTING STUDIO I. (3) *Prerequisite: ART 462.* Advanced studio exploration through historical, technical and practical methods. ***Course Fee***

ART 464. SENIOR PAINTING STUDIO II. (3) *Prerequisite: ART 462.* Advanced studio using historical, technical and practical methods to create a cohesive body of work. ***Course Fee***

ART 465. ADVANCED SENIOR PAINTING STUDIO I. (3) *Prerequisites: ART 463, 464.* Development of a sustainable studio practice through individual problem solving. ***Course Fee***

ART 466. ADVANCED SENIOR PAINTING STUDIO II. (3) *Prerequisites: ART 463, 464.* Development of a professional studio practice through individual experimentation and innovation. ***Course Fee***

SCULPTURE COURSES

ART 270. SCULPTURE SURVEY I. (3) *Prerequisites: ART 105 or 106, and 131 and 140 (or concurrently with 105 or 106).* A survey of sculpture production methods, including modeling, mold making, carving and fabricating in various materials. Students will explore traditional and contemporary techniques that can be used to express their understanding of the human condition by sculptural means. ***Course Fee***

ART 370. SCULPTURE SURVEY II. (3) *Prerequisite: ART 270.* Further development of basic sculptural materials and techniques. ***Course Fee***

ART 371. SCULPTURE METHODS, WELDING I. (3) *Prerequisite: ART 370.* Advanced work in sculpture composition. Welding is introduced, using oxyacetylene, electric or gas arc. ***Course Fee***

ART 372. SCULPTURE, FIGURATIVE STUDIES. (3) *Prerequisite: ART 270.* Focuses on the human figure, its various applications and meanings as a vehicle for aesthetic expression in contemporary sculpture. Course may be repeated once for credit. ***Course Fee***

ART 470. SCULPTURE. (3) *Prerequisite: ART 371.* Sculptural problems. Introduction to metal casting using sand molds. ***Course Fee***

ART 471. SCULPTURE METHODS, FOUNDRY I. (3) *Prerequisites: ART 371.* Sculptural problems. Introduction to the lost-wax method of casting. ***Course Fee***

ART 472. SCULPTURE. (3) *Prerequisite: ART 471.* Experience in solving problems met in professional practice. ***Course Fee***

ART 474. SCULPTURE METHODS, WOOD. (3) *Prerequisite: ART 472.* Advanced techniques in wood sculpture. ***Course Fee***

ART 475. SCULPTURE METHODS, WELDING II. (3) *Prerequisite: ART 371.* Advanced welding techniques in sculpture. ***Course Fee***

ART 476. SCULPTURE METHODS, FOUNDRY II. (3) *Prerequisite: ART 471.* Advanced foundry techniques in sculpture. ***Course Fee***

WEAVING COURSES

ART 280. WEAVING. (3) *Prerequisites: ART 105, 130 and 140 (or concurrently with ART 105, 106).* This course is an introduction to weaving, including rya, flossa, and tapestry rug techniques plus techniques for yardage and wall hanging. ***Course Fee***

ART 380. WEAVING. (3) *Prerequisite: ART 280.* In this course, the creative and individual approach is emphasized in weaving full-size items using techniques learned in Weaving 280, in addition to other weaving techniques. ***Course Fee***

ART 381. WEAVING. (3) *Prerequisite: ART 380.* In this course, the student is expected to investigate one or more selected areas of weaving. ***Course Fee***

ART 480. WEAVING. (3) *Prerequisite: ART 381.* This course consists of creative research in the areas of double-weave, ikat, the use of indigenous fibers and other more complicated techniques. ***Course Fee***

ART 481. WEAVING. (3) *Prerequisite: ART 480.* This course provides for the development of special creative problems involving techniques investigated in Weaving 480. ***Course Fee***

ART 482. WEAVING. (3) *Prerequisite: ART 481.* This course involves advanced individual research in weaving. ***Course Fee***

ART 483. SENIOR FIBER TECHNIQUES. (3) *Prerequisite: ART 482*. Develops proficiency in weaving or fiber construction through experiments with traditional and innovative techniques. ***Course Fee***

ART 484. SENIOR FIBER COMPOSITION. (3) *Prerequisite: ART 482.* Explores and develops mature personal concepts and imagery in fiber art. ***Course Fee***

ART 485. ADVANCED SENIOR FIBER TECHNIQUES. (3) *Prerequisites: ART 483, 484.* Continues the development of fiber techniques introduced in ART 483. ***Course Fee***

ART 486. ADVANCED SENIOR FIBER COMPOSITION. (3) *Prerequisites: ART 483, 484.* Continues the development of concepts and imagery in fiber art as begun in ART 484. ***Course Fee***

SPECIAL TOPICS STUDIO COURSES

ART 373. INSTALLATION ART. (3) *Prerequisite: Any 200-level course in studio art or graphic design.* Introduction to and practice with concepts, materials and methods of installation art. Students will experiment with developing their own artistic voice through creating site-specific art installations. Off campus field trip may be taken. May be repeated once for 3 additional credits. ***Course Fee***

ART 432. PORTFOLIO. (3) *Prerequisites: Junior standing and consent of instructor.* This course is designed to inform and to guide the student in assembling a portfolio for professional presentation. ***Course Fee***

ART 434. CAPSTONE SEMINAR. (1) *Special requirement: Senior standing with studio or graphic design concentration in AB or BFA.* A seminar workshop with emphasis on presentation and practices appropriate to future development. To be taken the last semester of the student's program of study in art. (Grading: Pass / Fail)

ART 496. SPECIAL TOPICS IN STUDIO ART. (3) *Prerequisite: Permission of instructor.* Investigates different topics in art through process or technique in a studio practice. May be repeated for a total of 6 credit hours. ***Course Fee***

INDEPENDENT STUDY

ART 490. SPECIAL PROBLEMS. (3-6)

ART 491. SPECIAL STUDIES. (3)

ART 399. PROFESSIONAL WORK. (3) *Prerequisite: Junior standing.*

ART 499. CAREER EXPERIENCE IN ART. (3) *Prerequisites: Application for or enrollment in Cooperative Education plan, approval of Co-op Faculty Advisor and of department head and development of written Learning Plan.* Practical experience in art in a supervised work situation within a cooperating private enterprise or public agency. Adequately prepared students are placed in a situation in which theoretical knowledge may be applied to actual professional experience. Course may be repeated once for an additional 3 hours.

ASL– American Sign Language
Department of Communication Sciences and Disorders

ASL 101. AMERICAN SIGN LANGUAGE I. (3) Principles, methods and techniques for communicating with individuals who sign. Topics include expressive and receptive sign skills, manual alphabet, numbers and sign vocabulary. Off- campus experiences are required. Students are responsible for arranging their own transportation to designated or assigned sites. ***Course Fee | GENED A-II | GE***

ASL 102. AMERICAN SIGN LANGUAGE II. (3) *Prerequisites: ASL 101 and / or permission of instructor.* Continuation and expansion of principles, methods and techniques for communicating with individuals who sign. Off-campus experiences are required. Students are responsible for arranging their own transportation to designated or assigned sites**. *Course Fee | Fulfills World Language with a grade of C or better.***

ASL 201. AMERICAN SIGN LANGUAGE III. (3) *Prerequisites: ASL 102 with a minimum grade of "C" or CLEP test or instructor permission.* Development of intermediate expressive and receptive ASL skills and cultural features of the language and community. Off-campus experiences are required. Students are responsible for arranging their own transportation to designated and assigned sites. There is a lab fee for activities within the ASL Lab. The class will be conducted without voice to enhance comprehension of the language. ***Course Fee | Fulfills World Language with a grade of C or better.***

ASL 301. AMERICAN SIGN LANGUAGE IV. (3) *Prerequisites: ASL 201, with a minimum grade of "C" or instructor permission.* The fourth in the four-semester sequence which continues training in American Sign Language (ASL) and study of the Deaf Community. Expressive, receptive, and affective skills will be the primary focus with an emphasis on receptive skills. There is a lab fee for activities within the ASL Lab. The class will be conducted without voice to enhance comprehension of the language. ***Course Fee | Fulfills World Language with a grade of C or better.***

ASL 302. DEAF CULTURE IN AMERICA. (3) An analysis of the sociological, cultural, and political impacts of deafness and compares various dynamics between Deaf and Hearing cultures in the United States.

ASL 303. INTERNATIONAL DEAF STUDIES. (3) *Prerequisite: ASL 102 with a minimum grade of "C" or by instructor permission.* A study abroad course that will expand the student's global understanding and knowledge of language, culture, education, law, technology, services provided and careers for the deaf and hard of hearing in other countries.

ASL 306. AMERICAN SIGN LANGUAGE CLASSIFIERS. (3) *Prerequisites / Corequisites: ASL 301 with a minimum grade of a "C" or taking ASL301 concurrently or by instructor permission*. Provides an in-depth analysis of classifiers in ASL through discussion and demonstration of the three different categories in ASL: representative classifiers (noun and its action), descriptive classifiers (size and shape, perimeter, patterns and textures), and instrumental classifiers (manipulative and handle). Students will learn to comprehend and produce classifiers from all three categories. The class will be conducted in American Sign Language to enhance comprehension. ***Course Fee***

ASL 309. ASL SPECIALIZED VOCABULARY. (3) *Prerequisites / Corequisites: ASL 301 with a minimum grade of "C" or taking ASL 301 concurrently or by instructor permission.* Supplements a student's American Sign Language (ASL) conversational skills by introducing terms and phrases which are found in specialized settings. The class will be conducted in American Sign Language to enhance comprehension. ***Course Fee***

ASL 401. FINGERSPELLING. (3) *Prerequisite:* ASL 201, with a minimum of C or instructor permission This course will serve to supplement a student's American Sign Language (ASL) conversational skills. Receptive and expressive fingerspelling course content will serve to further strengthen the student's use of this language. In addition, the course will also focus on aspects and applications of incorporating numerals into use of ASL in a variety of contexts. The class will be conducted without voice to enhance comprehension of the language. ***Course Fee***

ASL 402. ASL PROFESSIONAL ETHICS AND ISSUES. (3) *Prerequisites: ASL 201, with a minimum grade of "C" or instructor permission*. Professional and ethical issues as they relate to interpreting and transliterating. In addition, students will become familiar with applicable terminology and procedures when interacting with the Deaf Community. Topics are based on information needed for the Registry of Interpreters for the Deaf certification tests.

ASL 403. DEAF CULTURE AND HISTORY. (3) *Prerequisites: ASL 102, with a minimum grade of "C" or instructor permission*. An overview of the psychological, sociological and cultural impacts of deafness upon children and adults. Explores how deafness can affect the individual's development in language, communication, cognition and psychological emotional growth. Examines historic relations between Deaf and hearing and compares Deaf culture with that of the hearing world. A voice interpreter will be provided for the class.

ASL 406. ASL SPECIAL TOPICS. (1-3) *Prerequisites: ASL 102.* An in-depth examination of a current topic and relevance in the Deaf and Hard of Hearing community. Repeatable twice for a total of 3-9 credits.

ASTR – Astronomy
Department of Physics and Astronomy

COLONNADE COURSES

ASTR 104. ASTRONOMY OF THE SOLAR SYSTEM. (3) An introductory study of that portion of the physical universe extending beyond the earth from the sun to the outer limits of the solar system, including its relationship to the rest of the universe and to the earth. Topics include phenomena visible from earth, the earth's motions and timekeeping, eclipses, motions of planets and satellites, and the historical development of scientific understanding of the solar system. Comparison of physical properties among the sun, planets, and satellites interrelate the earth and its life forms with the extraterrestrial environment that supported the development and continuation of life on earth. This course contains an integral laboratory that includes planetarium exercises and evening observing sessions using telescopes. ***Colonnade E-NS (SL) | NS | SL***

ASTR 106. ASTRONOMY OF STELLAR SYSTEMS. (3) An introductory study of that portion of the physical universe in the space beyond the bounds of the solar system. Topics include the physical properties of stars and stellar systems, stellar formation and evolution, supernovas, pulsars, galaxies, quasars, black-holes, and cosmology — scientific theories of the origin, evolution, and fate of the universe on the grandest scale. Emphasis is given to the significance of these topics to the development and fate of the earth and its star. This course contains an integrated laboratory that includes planetarium exercises and evening observing sessions using telescopes. ***Colonnade E-NS (SL) | NS | SL***

ASTR 108. DESCRIPTIVE ASTRONOMY. (3) Introductory survey of our universe; from observations of the sun, moon and stars in the sky to our understanding of planets, stars, galaxies and the overall characteristics of the cosmos. ***Colonnade E-NS | NS***

ASTR 275. ASTRONOMY RESEARCH METHODS. (3) *Prerequisite: MATH 117 or equivalent; and permission of instructor*. Intensive project-based course to introduce students to the fundamentals of astronomy using scientific research investigations as examples. Includes familiarization with astronomical instrumentation for imaging and spectroscopy of celestial objects, digital image reduction and analysis, and interpretation of results. Additional topics include the process and nature of scientific research and professional ethics. This course does not count toward a major or minor in physics or astronomy.

SCIENCE / MATH MAJORS AND MINORS

ASTR 214. GENERAL ASTRONOMY. (4) *Corequisite: MATH 136.* An introduction to astronomy for science majors. Topics include distances, masses, and luminosities of stars, stellar atmospheres and structure, stellar evolution, star systems, interstellar matter, galaxies, cosmology, the sun, and the solar system. Three hours of lecture and two hours of laboratory per week.

EDUCATION MAJORS AND MINORS

ASTR 405. ASTRONOMY FOR TEACHERS. (3) *Prerequisite: ASTR 104 or ASTR 106 or ASTR 214.* Selected topics in astronomy for elementary and secondary teachers. Does not count toward physics major credit.

PHYSICS MAJORS AND MINORS

ASTR 298. RESEARCH EXPERIENCES. (1-3) *Prerequisite: MATH 117 or equivalent, and ASTR 106 or ASTR 214 or ASTR 275; and permission of instructor*. Individual or group research project carried out under direct faculty supervision. An oral presentation or paper, reviewed by a faculty committee, is required. Course may be repeated for a maximum total of 3 credit hours.

ASTR 305. INTRODUCTION TO ASTROBIOLOGY. (3) *Prerequisites: MATH 116, and ASTR 106 or BIOL 120 or CHEM 120 or GEOL 111.* Interdisciplinary study of life on Earth and possible life beyond Earth. Topics include the environments suitable for life, evolution of life forms, and the search for intelligent extraterrestrial life. Integrates concepts and methods from astronomy, biology, chemistry and geology.

ASTR 314. OBSERVATIONAL ASTRONOMY. (4) *Prerequisite: ASTR 214.* A study of the techniques of observational astronomy. Topics include imaging techniques, spherical astronomy, magnitude systems, telescope optics, data acquisition, and statistical analysis of astronomical data. Three hours of lecture and two hours of laboratory per week.

ASTR 414. ASTROPHYSICS. (4) *Prerequisites: PHYS 321 and MATH 237. Corequisite: MATH 331.* Introduction to current astrophysical topics, including radiation theory, the interstellar medium, stellar evolution, galaxies, quasars and cosmology.

BA – Business Administration
Gordon Ford College of Business

BA 110. INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP. (3) A multi-disciplinary introduction to business and entrepreneurship. Course will provide basic knowledge of each of the major functional global business areas. Ethical issues and consumers' rights will also be integrated into the course. ***Course Fee***

BA 175. UNIVERSITY EXPERIENCE-BUSINESS. (3) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* A multi-disciplinary introduction to entrepreneurship and the general business environment. Topics include study skills, critical thinking, problem solving and exploration of majors and careers. Special attention is given to educational requirements, careers and resources available in the business arena. ***Course Fee***

BA 220. SPECIAL TOPICS IN BUSINESS ADMINISTRATION (LOWER DIVISION). (1-3) Special topics course covering interdisciplinary topics of current interest in business. Open to all students. May be repeated one time for up to 6 hours of credit. ***Course Fee***

BA 420. SPECIAL TOPICS IN BUSINESS ADMINISTRATION (UPPER DIVISION). (1-3) *Prerequisite: Junior standing.* Special topics course covering interdisciplinary topics of current interest in business administration. May be repeated one time for up to 6 hours of credit. ***Course Fee***

BA 490. COLLEGE OF BUSINESS INTERNSHIP. (1-3) *Prerequisites: GPA 2.5 overall, ACCT 200, 201; CIS 241; ECON 202, 203, 206, FIN 330; MGT 200, 210; MKT 220; MATH 116.* Professional or business opportunities consistent with the mission and objectives of the Ford College of Business. These opportunities will be used to complement and individualize a student's program of study and will be administered on a pass / fail basis. ***Course Fee***

BA 495. CAREER DEVELOPMENT ATTENDANCE. (0) *Prerequisites: Senior standing and admission to the college.* Completion of multiple career readiness and professional development events and activities prior to graduation from WKU. All events and activities must be from an approved Gordon Ford College of Business list. ***Course Fee***

BCOM – Broadcast Communication
School of Journalism & Broadcasting

BCOM 201. PROCESS AND EFFECTS OF MASS COMMUNICATION. (3) Mass communication's potential to influence audience beliefs and behaviors is analyzed. Provides a clear, compelling presentation of the fundamentals and history of the theoretical underpinnings and current status of media effects research – knowledge that will help the student to navigate in a media-saturated environment.

BCOM 261. BASIC RADIO PRODUCTION. (3) *Prerequisite: Either SJB 101 or 102.* Designed to introduce students to the operation of radio studio equipment and general station operation. Practical experience producing various types of radio broadcast material. Lecture and lab.

BCOM 264. DIGITAL VIDEO PRODUCTION AND DISTRIBUTION. (3) Designed for non-broadcasting majors, this course includes the basics needed to shoot, edit and distribute video productions in the digital realm. Acquisition will concentrate on lighting, composition and audio for the digital world. Editing and graphics will be explored using non-linear programs, and distribution will focus on CDs, DVDs and web streaming. ***Course Fee***

BCOM 265. BASIC BROADCAST NEWS. (3) *Prerequisite: SJB 101 or 102.* An introduction to the theory and practice of broadcast news writing styles for radio, television and the Web. Includes analyzing and editing news information with exposure to broadcast news announcing on the student radio station, WWHR-FM. ***Course Fee***

BCOM 266. BASIC TELEVISION PRODUCTION. (3) *Prerequisite: SJB 101 or BCOM 201 or permission of instructor.* Designed to introduce students to production principles, crew positions, equipment and general station operation. Practical experience producing various types of television broadcast and non-broadcast video material in a mutli-camera studio environment. Lecture and lab. ***Course Fee***

BCOM 300. AMERICAN POPULAR ARTS. (3) *Prerequisite: BCOM 201 or SJB 101 or POP 201.* Provides a balanced and comprehensive coverage of the major manifestations of popular mass-mediated arts. Critical examination seeks to reveal the actual and potential values of contemporary "middle culture." Areas to be investigated in detail include movies, popular music, magazines, books, television, radio and related communication channels.

BCOM 301. MASS COMMUNICATION LAW AND ETHICS. (3) *Prerequisites: PS 110 and BCOM 201; or permission of instructor for students outside the School of Journalism & Broadcasting.* An overview of concepts basic to the freedom of expression. Consideration, through case study and attention to topical problems, of limits on the freedom of expression, including various means of regulation: ethics, law and other social controls. Emphasis on broadcasting applications.

BCOM 303. ACTING FOR THE CAMERA. (3) A fundamental approach to auditioning and acting for the camera. Equivalent to THEA 303.

BCOM 325. SURVEY OF ELECTRONIC MEDIA WRITING. (3) *Prerequisite: SJB 101 or SJB 102; or permission of instructor for students outside the School of Journalism & Broadcasting.* A survey of writing for television, radio, and web audiences. Practice in writing techniques for commercials, public service announcements, news, interviews and dramatic segments. Introduction to the production elements involved in writing for broadcast and the Web. ***Course Fee***

BCOM 326. RADIO AND TELEVISION NEWS PERFORMANCE. (3) *Prerequisite: BCOM 265 and either BCOM 261 or 266.* A practical application of skills and techniques needed as journalism performers for long-form radio interviewing and television news studio, and field on-camera presentation. The goal is to improve voice and image projection for broadcast journalism presenters. Lecture and lab. ***Course Fee***

BCOM 328. BROADCAST WEATHER GRAPHICS. (3) *Prerequisites:* BCOM 201, METR 121. Creation and practical use of weather graphics to formulate a forecast. Data accumulation and communication of weather events to a radio / television audience. ***Course Fee***

BCOM 329. BROADCAST WEATHER DATA. (3) *Prerequisites:* BCOM 201, METR 121. The use of broadcast satellite and broadcast radar products in weather prediction, emphasizing image interpretation. Advanced analysis of broadcast meteorological case studies related to broadcast weather forecasting problems and severe weather events. ***Course Fee***

BCOM 335. NEWS DISCOVERY AND SELECTION. (3) *Prerequisite: BCOM 265.* Gathering news through active news discovery; advance planning, enterprising and prioritizing stories based on criteria of newsworthiness and consequence. Some off-campus travel. ***Course Fee***

BCOM 360. ELECTRONIC MEDIA PROGRAMMING / RESEARCH. (3) *Prerequisite: BCOM 301 or instructor's permission.* Exposure to full range of broadcast programming options and research concerns. Marketplace and managerial aspects of format design and audience analysis are presented and discussed to reveal the essential nature and role of electronic mass media services.

BCOM 361. ADVANCED RADIO PERFORMANCE. (3) *Prerequisite: BCOM 261.* An advanced production course in radio broadcast programming and personality development. Integrated work on WWHR-FM radio. Projects include weekly air shifts, digital production and editing work, remote broadcasts and involvement in overall station operations. Lecture and lab. ***Course Fee***

BCOM 365. BROADCAST NEWS REPORTING AND PRODUCING. (3) *Prerequisites: BCOM 335 and 368.* A practical application of broadcast news information gathering, writing, editing and presentation for the Web, radio and television. Students are exposed to the news decision aspects of broadcast news producing for the student radio, TV and online news outlets. Lecture and lab. ***Course Fee***

BCOM 366.EDITING I. (3) *Prerequisite: BCOM 266 or FILM 201.* Editing as a practical experience and as the final tool for the visual storyteller's message. Editing systems include Avid and Final Cut Pro. Work with original material in editing situations that incorporate computer graphics and 3-D animation. Discussion and analysis of editing decisions considering ethics, philosophy, timing and aesthetics. Lecture and lab. ***Course Fee***

BCOM 367. FIELD PRODUCTION. (3) *Prerequisite: BCOM 366.* Study of, and practical experience in, single-camera field acquisition. Techniques of lighting, audio, talent and environment manipulation, as they apply to both film and video, are examined in the context of shooting for the edit. Employs advanced editing tools in developing skills by students through use of time code, Avid systems and DVE units. ***Course Fee***

BCOM 368. NEWS VIDEOGRAPHY AND EDITING. (3) *Prerequisites: BCOM 365 and 366.* A study of, and practical experience in, field techniques of videography and editing procedures an practices as they pertain to television news and documentaries. Emphasis on ethical television photojournalism, digital video and nonlinear editing for electronic news gathering (ENG) for commercial and noncommercial television news programs. ***Course Fee***

BCOM 369. COOPERATIVE EDUCATION IN BROADCAST COMMUNICATION. (3) *Prerequisites: 18 hours in the major, permission of sequence coordinator.* Appropriate supervised work with a cooperating organization, defined as a licensed radio or television station, cable television or production facility.

BCOM 378. FILM ANIMATION. (3) Students learn the basics of producing animated motion pictures by experimenting with a variety of techniques and methods. Also included is a history of the animated film as an art form.

BCOM 380. INTERMEDIATE POST PRODUCTION. (3) *Prerequisite: BCOM 366.* Continued instruction in post-production techniques and technologies. Focuses include image manipulation, non-linear editing, audio post, visual effects and compositing, with a strong web component. **Course fee**

BCOM 385. BROADCAST COMMERCIAL SALES. (3) *Prerequisite: Sophomore status.* A study of the marketing principles, problems and techniques of producing revenue for broadcast radio, televisions and the Internet through the sale of commercial time. Students are involved in role-playing as well as the preparation and oral presentation of a final marketing project.

BCOM 401. HISTORY OF BROADCASTING IN AMERICA. (3) Consolidates and interrelates the major historical factors in the development of broadcast mass communications in America; provides perspective on the creation, adaptation and diffusion of radio and television in relation to other mass media.

BCOM 429. BROADCAST METEOROLOGY. (3) *Prerequisites: BCOM 328, BCOM 329, METR 324, 426.* This course teaches the student the intricacies of meteorological forecast elements while completing television studio work, specifically designed to television weather performance. Weather-related features as well as emergency weather broadcasting will be covered. ***Course Fee***

BCOM 461. RADIO WORKSHOP. (1) *Prerequisites: BCOM 361 and instructor's permission.* A radio production and management course for students with a continuing desire to contribute to the on-air operation of WWHR or for students involved in WWHR staff / management positions. Coursework involves practical application of radio production and management skills in the areas of entertainment and news. Lecture and lab. May be repeated twice for additional credit.

BCOM 463. FIELD PRODUCTION II. (3) *Prerequisite: BCOM 367.* Advanced study of single-camera video production, including producing, directing, shooting, and editing. Emphasis on collaborative video field production and post-production. ***Course Fee***

BCOM 465. ADVANCED BROADCAST NEWS. (3) *Prerequisites: BCOM 365 and 368.* The capstone course in writing, editing, announcing and producing radio and television news reports. Producing, anchoring and reporting for the student television newscast is required. Students also analyze the job market and produce a resume tape for employment. Lecture and lab. ***Course Fee***

BCOM 466. TELEVISION DIRECTING. (4) *Prerequisite: BCOM 463.* Professional level directing course for broadcasting majors. Structured to offer students a thorough knowledge of and experience in directing single and multi-camera productions. Emphasis on live and recoded programs for broadcast and non-broadcast applications. ***Course fee***

BCOM 467. BROADCAST WORKSHOP. (1) *Prerequisite: Instructor permission.* An intense study of a specific production or news skill generally required of broadcasting personnel. These skills will be identified and studied through discussion and application. Various production-related topics include television lighting, television graphics, electronic news gathering (ENG), commercial spot production, industrial applications and radio / TV sports announcing. Workshop production outlets include regular newscasts, television and radio sports broadcasts, and others.

BCOM 476. ADVANCED RADIO SALES. (3) *Prerequisite: BCOM 385.* Storytelling's role in radio sales and the critical skills needed in today's radio sales profession. Builds upon the foundation presented in Broadcast Sales (BCOM 385) by focusing on selling all of the various advertising platforms in consolidated radio operations. Students will have the opportunity to earn their Radio Marketing Professional and Certified Digital Market Professional certifications from the Radio Advertising Bureau.

BCOM 480. EDITING III. (3) *Prerequisite: BCOM 380.* Advanced instruction in post-production techniques and technologies. Focuses include non-linear editing, advanced visual effects and compositing, DVD authoring, encoding for mobile applications, and web video and animation. ***Course Fee***

BCOM 481. PROBLEMS IN MASS COMMUNICATION. (3) *Prerequisite: Permission of the instructor.* Course offers the student the chance to pursue an independent study in a number or areas including radio, television, cinematography and broadcast news.

BCOM 482. TELEVISION PROGRAM PRODUCTION. (3) *Prerequisites: BCOM 380, 463, and senior standing.* Capstone of television production sequence. Culminates in portfolio, which entire production faculty evaluates. Projects, accompanied by complete production books, may target commercial and / or non-commercial outlets for both film and video. Program produced should reflect skills acquired in all previous production courses and serve as anchor of student's sample reel. ***Course Fee***

BCOM 485. BROADCAST OPERATIONS AND MANAGEMENT. (3) *Prerequisite: BCOM 385 or permission of instructor.* A study of the programming, operation and management practices and problems related to broadcast radio and television stations in the United States, as well as industry codes and regulatory requirements from governmental agencies.

BCOM 491. INTERNSHIP. (3) *Prerequisites: 18 hours in the major, permission of sequence coordinator.* Professional-quality experience outside or inside the University for a fixed period of time and conforming to minimum standards established by the School. Follow-up will consist of student reports and evaluation.

BDAS – Brewing and Distilling Arts & Sciences
POTTER COLLEGE OF ARTS & LETTERS
OGDEN COLLEGE OF SCIENCE AND ENGINEERING

BDAS 300.THE SCIENCE OF FERMENTATION IN BREWING AND DISTILLING. (3) Introduction to the basic scientific principles that govern the fermentation process, with particular application to brewing and distilling.

BDAS 310. BREWHOUSE AND DISTILLERY PROCESSES. (2) The methodology and processes involved in the preparation of wort and mash for brewing and distilling, including the essentials of the science and technology that precedes fermentation.

BDAS 310-M1. BREWHOUSE AND DISTILLERY PROCESSES MODULE 1. (1) The methodology and processes involved in the preparation of wort and mash for brewing and distilling, including the essentials of the science and technology that precedes fermentation.

BDAS 310-M2. BREWHOUSE AND DISTILLERY PROCESSES MODULE 2. (1) The methodology and processes involved in the preparation of wort and mash brewing and distilling, including the essentials of the science and technology that precedes fermentation.

BDAS 495. INTERNSHIP IN BREWING / DISTILLING. (1-3) *Prerequisites: Registration in the certificate and consultation with a designee of the Ogden college, Gordon Ford college, or Potter college Dean's office*. On-site experience in a brewery or distillery, conducted under the supervision of the program coordinator and local personnel. Experience could include but is not limited to brewing, distilling, marketing, management, or other industry-related work. Can be repeated for up to 6 credit hours.

BE – BUSINESS AND MARKETING EDUCATION
SCHOOL OF TEACHER EDUCATION

BE 210. COMPUTER APPLICATIONS FOR BUSINESS EDUCATORS. (3) Fundamentals of integrated desktop computer applications utilized by Business and Marketing educators. For future Business and Marketing educators with no computer applications experience.

BE 350. BUSINESS COMMUNICATION. (3) A study of the communication process in business as related to managerial and professional communication. Emphasis on the principles of functional communication; correct, forceful language use; and sound management policies and practices, which lead to effective communication.

BE 362. INTRODUCTION TO OFFICE SYSTEMS. (3) This course emphasizes the interaction of people, processes, and technologies that form office information systems within contemporary organizations. The integrated office systems concept; major office systems technologies; management decisions and personnel considerations necessitated by office automation; human factors currently at the forefront of office systems planning; and emerging trends in society, organizations, and technology will be discussed.

BE 400. ADVANCED COMPUTER APPLICATIONS FOR BUSINESS EDUCATORS. **(3)** *Prerequisite:* BE 210. Fundamentals of advanced integrated desktop computer applications utilized by Business and Marketing educators. For future Business and Marketing educators or students who wish to expand their current skills from the intermediate level to the advanced level.

BE 410. DIGITAL MEDIA FOR BUSINESS EDUCATORS. (3) *Prerequisite: BE 210.* Fundamentals of creating documents and web pages via computer media. Emphasis will be placed on computer desktop publishing. For future Business and Marketing educators.

BE 471. OFFICE INTERNSHIP. (3) *Prerequisite: Permission of the coordinator.* Office Internship is a business work experience program requiring employment in a business, government, or institutional office environment during the term in which the student is enrolled. This course requires periodic seminars and permission of the employer to declare the work experience as an internship experience.

BE 485. OFFICE EMPLOYEE TRAINING. (3) Theories of learning applied to the adult learner in training and development situations; developing, managing, staffing training, development programs, training materials creation, evaluation, facilities, media, applications for administrative, professional support, and office systems employees.

BE 486. BUSINESS AND MARKETING EDUCATION SEMINAR. (3) *Prerequisites: Senior standing and permission of instructor. Corequisite: SEC 473.* A capstone course focusing on current trends, problems, and issues in the business world and their effect on Business and Marketing education.

BDAN– BUSINESS DATA ANALYTICS
DEPARTMENT OF INFORMATION SYSTEMS

BDAN 310. BUSINESS DATA ANALYTICS. (3) *Prerequisite: CIS 243.* An introduction to the application of data analytics methods to business issues. Topics include business case studies, data analytics, model building techniques, and communications of results. ***Course Fee***

BDAN 320. WEB ANALYTICS. (3) *Prerequisite: CIS 243.* An introduction to measuring, collecting, analyzing, and reporting on online digital Web data using digital analytics and business intelligence. ***Course Fee.***

BDAN 330. STRUCTURED DATA ANALYSIS. (3) *Prerequisite: CIS 243.* An introduction to the practical analysis and interpretation of different forms of data, emphasizing how and when to use particular tools, techniques, and metrics to maximize decision-making. ***Course Fee***

BDAN 350. DATA MANAGEMENT. (3) *Prerequisite: CIS 243.* An introduction to managing the data used in business data analytics. Topics include data sources, acquisition, conditioning, storage, and security. ***Course Fee***

BDAN 410. DECISION SUPPORT SYSTEMS ANALYSIS AND DESIGN. (3) *Prerequisite: CIS 243.* An exploration of the analysis and design processes used to develop and deploy decision support systems (DSS) in businesses, which are technology-based tools that support decision-making activities ***Course Fee***

BDAN 420. DATA MINING. (3) *Prerequisite: BDAN 310.* An introduction to data mining and the demonstration of extraction principles from data stored in large heterogeneous volumes and how organizations can analyze data from multiple perspectives. ***Course Fee.***

BDAN 430. DATA VISUALIZATION AND DIGITAL DASHBOARDS. (3) *Prerequisite; BDAN 310.* An introduction to the accumulation, analysis, and visualization of complex data sets for businesses, including the analysis of complex data sets and developing digital dashboards and scorecards. ***Course Fee***

BIOL– BIOLOGY
DEPARTMENT OF BIOLOGY (BIOL)

**Course numbers preceded by an asterisk are not applicable toward a major or minor in biology without prior approval of the department head.*

BIOL 113. GENERAL BIOLOGY. (3)** An introductory course in biology for the non-science major, which emphasizes the diversity and organization of life integrated with major principles and new discoveries. ***Colonnade E-NS | NS

BIOL 114. GENERAL BIOLOGY LABORATORY. (1)** A laboratory course correlated with BIOL 113 for non-science majors emphasizing the scientific process, biological concepts and biological organization. ***Course Fee | Colonnade E-SL | SL

BIOL 120. BIOLOGICAL CONCEPTS: CELLS METABOLISM AND GENETICS. (3) *Corequisite: BIOL 121.* Introductory course in biology that emphasizes cellular organization and processes, metabolism, DNA structure and replication, and Mendelian and population genetics. ***Colonnade E-NS | NS***

BIOL 121. BIOLOGICAL CONCEPTS: CELLS, METABOLISM, AND GENETICS LAB. (1) *Corequisite: BIOL 120.* Introductory laboratory in biology that emphasizes the experimental aspects of cellular organization and processes, metabolism, DNA structure and replication, and Mendelian and population genetics. ***Course Fee | Colonnade E-SL | SL***

BIOL 122. BIOLOGICAL CONCEPTS: EVOLUTION, DIVERSITY, AND ECOLOGY. (3) *Corequisite: BIOL 123.* Introductory course in biology that emphasizes evolutionary patterns and processes, diversity of life (bacteria, archaea, protists, plants, fungi, and animals), ecological principles, and conservation and management. ***Colonnade E-NS | NS***

BIOL 123. BIOLOGICAL CONCEPTS: EVOLUTION, DIVERSITY, AND ECOLOGY LAB. (1) *Corequisite: BIOL 122.* Introductory laboratory in biology for science majors that emphasizes the experimental aspects of evolutionary patterns and processes, diversity of life (bacteria, archaea, protists, plants, fungi, and animals), ecological principles, and conservation and management. ***Course Fee | Colonnade E-SL | SL***

BIOL 131. HUMAN ANATOMY AND PHYSIOLOGY. (4)** A basic anatomy and physiology course designed for students in physical education and health science careers. Emphasis is placed upon the concept of homeostasis and relationship of structure and function. ***Course Fee | Colonnade E-NS (SL) | NS | SL

BIOL 199. INTRODUCTION TO RESEARCH EXPERIENCE. (1) Introduces students to biological research through hands-on, small group sessions. Each student will learn research techniques in modern biology with a focus on ethics and critical thinking. ***Course fee***

BIOL 207. GENERAL MICROBIOLOGY. (3)** An introduction to microorganisms and their importance to humans (for non-biology majors). Approximately one third of the course is devoted to each of the three major areas of microbiology: organismal, environmental, and medical. (May be taken with or without the correlated laboratory course, BIOL 208, dependent upon the student's curriculum requirements). ***Colonnade E-NS | NS

BIOL 208. GENERAL MICROBIOLOGY LABORATORY. (1)** *Prerequisite / concurrent prerequisite: BIOL 207.* A laboratory course correlated with BIOL 207. ***Course Fee | Colonnade E-SL | SL

BIOL 212. GENOME DISCOVERY AND EXPLORATION. (2) Discovery, characterization, and genomic analysis of viruses from sample collection and purification through DNA isolation and analysis.

BIOL 222. PLANT BIOLOGY AND DIVERSITY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122-123 with grades of "C" or higher. Corequisite: BIOL 223.* Survey of cyanobacteria, algae, and plants with an emphasis on anatomy, morphology, development, physiology, and evolutionary adaptations.

BIOL 223. PLANT BIOLOGY AND DIVERSITY LAB. (1) *Corequisite: BIOL 222.* A laboratory course correlated with BIOL 222. ***Course Fee***

BIOL 224. ANIMAL BIOLOGY AND DIVERSITY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher. Corequisite: BIOL 225.* Survey of animal phyla and major classes with emphasis upon morphological adaptations and biological systems that have evolved to maintain organismal and population homeostasis.

BIOL 225. ANIMAL BIOLOGY AND DIVERSITY LAB. (1) *Corequisite: BIOL 224.* A laboratory course correlated with BIOL 224. ***Course Fee***

BIOL 226. MICROBIAL BIOLOGY AND DIVERSITY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher. Corequisite: BIOL 227.* A study of morphological, cultural, and biochemical characteristics of important groups of bacteria.

BIOL 227. MICROBIAL BIOLOGY AND DIVERSITY LAB. (1) *Corequisite: BIOL 226.* A laboratory course correlated with BIOL 226. ***Course Fee***

BIOL 231. ADVANCED HUMAN ANATOMY AND PHYSIOLOGY. (4)** *Prerequisites: BIOL 131 with a grade of "C" or better or equivalent.* Human anatomy and physiology for health science career students emphasizing an integrated organ systems approach to body function. ***Course Fee

BIOL 275. COLLOQUIA. (1-3) *Prerequisite: Consent of instructor.* Issues of contemporary, historical or intellectual significance in Biology, often with ethical implications will be weighed and debated. May not be used to satisfy the general education requirement in natural sciences. May be repeated with a maximum of 3 hours counting for the Biology major or minor.

BIOL 285. INTRODUCTION TO FIELD BIOLOGY. (1-4) An introductory field experience on a specific biological or ecological topic.

***BIOL 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1)** *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or OCSTH faculty member recommendation.* To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count towards any major or minor). Equivalent to CHEM 295, CS 295, ENGR 295, GEOL 295, MATH 295, and PHYS 295.

***BIOL 302. HUMAN BIOLOGY. (3)** A survey of body systems with special emphasis on human reproduction, embryological development and infectious diseases. Designed for non-science majors.

***BIOL 303. LIFE SCIENCE FOR MIDDLE GRADES TEACHERS. (1-3)** *Prerequisites: BIOL 120 / 121, BIOL 122 / 123, and 6 hours of SMED 200 level and above courses.* Pedagogical content and knowledge in life sciences with practicum experience for middle school teachers. Not available for credit toward any biology, chemistry, or biochemistry major or minor. May be repeated once for a maximum of 4 credit hours.

BIOL 312. BIOINFORMATICS. (4) *Prerequisites: BIOL 120 / 121 with grades of "C" or higher or consent of instructor.* Presentation of the theoretical underpinnings and the computational methods of nucleic acid and protein sequence analyses used in genomic work. An associated laboratory component will provide project-based application of these methods.

BIOL 315. ECOLOGY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* A study of the fundamental principles of ecology. ***Course Fee***

BIOL 316. EVOLUTION: THEORY AND PROCESS. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* Study of the genetic, behavioral and ecological mechanisms leading to evolutionary change, and the role of evolutionary theory as a unifying framework in biology.

BIOL 317. PLANT PATHOLOGY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* Introduction to common plant pathogens and diseases of agronomically important field and forage crops, turf, vegetables and ornamentals. Topics include control measures, newly discovered diseases, and plant-pathogen interactions.

***BIOL 318. BIOLOGICAL SCIENCE LABORATORY FOR ELEMENTARY TEACHERS. (1)** *Prerequisites: BIOL 113 or equivalent and at least junior standing.* A laboratory course for Elementary Education majors emphasizing the scientific process, highlighting classical and current topics of biological importance, and demonstrating relatively simple and economical means to reveal fundamental biological principles to elementary school students.

BIOL 319. INTRODUCTION TO MOLECULAR AND CELL BIOLOGY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher; CHEM 120 / 121.* Introduction to molecular and cell structure, relating molecular structure and function to cell structure and function. Special emphasis on protein and nucleic acid structure and function and their role in coordinating cellular activities.

BIOL 321. COMPARATIVE ANATOMY. (4) *Prerequisites: BIOL 224 / 225.* A comparative study of the morphology and relationships of the organ systems of some typical vertebrates. ***Course Fee***

BIOL 322. INTRODUCTION TO MOLECULAR AND CELL BIOLOGY LABORATORY. (1) *Prerequisite / concurrent prerequisite: BIOL 319.* Laboratory course presenting fundamental techniques for the isolation and characterization of biological molecules, with an emphasis on proteins and nucleic acids. ***Course Fee***

BIOL 324. HISTOLOGY. (4) *Prerequisites: BIOL 224 / 225.* A study of the microscopic structure of vertebrate tissues and organs.

BIOL 325. INSECT BIODIVERSITY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor.* Study of insects, the most diverse group of animals, including their unusual morphology, behavior, ecology, and evolutionary relationships. Laboratory activities include required off-campus trips to regional habitats and surveys of global insect groups. ***Course Fee***

BIOL 326. ORNITHOLOGY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* A study of the general characteristics, economic importance, history, structure, classification, and identification of birds.

BIOL 327. GENETICS. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* A study of the fundamental principles of heredity in eukaryotic organisms.

BIOL 328. IMMUNOLOGY. (4) *Prerequisites: BIOL 319 / 322 or BIOL 327 / 337.* An introductory study of the vertebrate immune system and its relationship to organismic integrity. ***Course Fee***

BIOL 330. ANIMAL PHYSIOLOGY. (3) *Prerequisites: BIOL 224 / 225, CHEM 120 / 121.* Examination of the general principles by which animals function. Major organ systems of animals are explored with emphasis on the communication and interactions between them. Numerous vertebrate and invertebrate systems are used to illustrate physiological concepts.

BIOL 331. ANIMAL PHYSIOLOGY LABORATORY. (1.5) *Prerequisite / concurrent Prerequisite: BIOL 330.* A laboratory course that emphasizes experimental design and hypothesis testing, along with classic and modern techniques used in animal physiology. ***Course Fee***

BIOL 332. PRINCIPLES OF WILDLIFE ECOLOGY AND MANAGEMENT. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 each with grade of "C" or higher or consent of instructor.* Examination of the principles of wildlife ecology and management, including ecological theory, population regulation, habitat management, wildlife diseases, and conservation. Primarily for those interested in a career involving wildlife.

BIOL 334. ANIMAL BEHAVIOR. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* Examination of the evolutionary basis of behavior in animals. Topics include genetic and physiological bases of behavior, communication, animal cognition, migration, foraging, predator avoidance, courtship and mate choice, and sociality.

BIOL 335. NEUROBIOLOGY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor.* The nervous system is described at the molecular, cellular, and systemic level. Topics include the structure of neurons, how neurons transmit signals, sensory systems, brain organization, and neural development, as well as how these principles affect behavior and health.

BIOL 336. FOOD MICROBIOLOGY. (3) *Prerequisites: BIOL 207 / 208, or BIOL 226 / 227, or consent of instructor.* A comprehensive understanding of food microbiology, including foodborne pathogenic bacteria, beneficial bacteria, microbial impact on food processing, control of microorganisms in food, and food regulations, This course may include off-campus travels to food processing companies or government laboratories.

BIOL 337. GENETICS LABORATORY. (1) *Prerequisite or concurrent prerequisite: BIOL 327.* A laboratory-based study of genetics, genomics, and population genetics. Modern laboratory techniques are emphasized. **Course fee.**

***BIOL 344. BIOLOGY OF AGING. (3)** *Prerequisite: Three hours of biology or consent of instructor.* An introductory study of the mechanisms of aging processes with special emphasis on humans. Unfavorable progressive changes in molecules, cells, organs and organ systems will be discussed. Designed for non-biology majors.

BIOL 348. PLANT TAXONOMY. (4) *Prerequisites: BIOL 222 / 223 with a grade of "C" or better; or permission of instructor.* Identification of local plant species and survey of major vascular plant families emphasizing morphological diversity, evolutionary relationships and economic uses. Field trips required. ***Course Fee***

BIOL 350. INTRODUCTION TO RECOMBINANT GENETICS. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor.* This course will introduce students to the basic mechanisms of genetic recombination, both in living cells and in vitro. Topics that will be discussed include: genomic organization, genetic recombination, genetic mapping, gene cloning and cloning vectors, and physical mapping of genes. The laboratory will cover methods for the isolation, cloning, labeling, and reintroduction into cells of recombinant vectors. ***Course Fee***

BIOL 355. ECOLOGY LAB. (2) *Prerequisite / concurrent prerequisite: BIOL 315.* A field-oriented, science process course where students learn to perform research and gain experience in ecology.

BIOL 356. ORNITHOLOGY LAB. (2) *Prerequisite / concurrent prerequisite: BIOL 326.* The taxonomy, morphology, and natural history of birds of Kentucky. Off-campus travel will be required. ***Course Fee***

BIOL 369. COOPERATIVE EDUCATION IN BIOLOGY. (1-3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with a grade of "C" or higher and consent of instructor.* Practical experience in a supervised, professional work environment in an instructional classroom, business, industry, government agency or laboratory setting.

BIOL 372. CAUSES AND CONSEQUENCES OF HUMAN-WILDLIFE CONFLICT. (3) *Prerequisites: 21 hours of Colonnade Foundations and Explorations courses, or junior or senior status.* Global study of human-wildlife conflict and the varying ecological, social, economic, and cultural realities that influence this conflict. ***Colonnade K-LG***

BIOL 377. ANIMAL FORM AND FUNCTION. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor.* Mechanistic designs underlying organismal morphology, physiology driving designs, and behaviors that impact function. Topics include comparative anatomy, adaptation, ecomorphology, biological basis of physical principles, and organismal performance. ***Course Fee***

BIOL 380. CHALLENGES OF A CHANGING BIOSPHERE. (3) *Prerequisite: 21 hours of Colonnade Foundations and Explorations Courses, or junior status*. A focus on environmental issues from a biological perspective with emphasis on Habitat loss, Invasive species, Population growth, Pollution, and Overharvesting (HIPPO) in light of climate change and extinction. ***Colonnade K-LG***

BIOL 382. INTRODUCTORY BIOSTATISTICS. (3) *Prerequisites: BIOL 120 /121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor; MATH 117 (or equivalent or higher).* Introduction to statistical techniques and experimental design applied to the biological sciences. Probability and distributions, descriptive statistics, hypothesis testing and statistical inference using t-statistics, regression, ANOVA, chi-square, non-parametric tests. Use of computers and analysis of real data are emphasized.

BIOL 388. CONTEMPORARY ISSUES IN BIOTECHNOLOGY. (0-1) *Prerequisites: Restricted to majors of the Molecular Biotechnology program.* Examination of recent advances, ethics and career opportunities in biotechnology through discussions, seminars, and field trips.

BIOL 390. ETHNOBIOLOGY — PEOPLE, PLANTS, & ANIMALS. (3)** *Prerequisite: 21 hours of Colonnade Foundation and Exploration Courses, or junior status.* Interdisciplinary study of the relationships of plants and animals with human cultures worldwide, including past and present relationships between peoples and the environment. ***Colonnade K-SY

BIOL 397. SCIENTIFIC PROCESS. (2-4) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or permission of instructor*. An in-depth experience with scientific research from concept through dissemination.

BIOL 399. RESEARCH PROBLEMS IN BIOLOGY. (1-3) *Prerequisite: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher and consent of research project director.* A study involving a research project under faculty supervision. May be repeated with a maximum of 6 hours (ref. 525) or 3 hours (ref. 617) counted toward the major.

BIOL 400. PLANT PHYSIOLOGY. (4) *Prerequisites: BIOL 222 / 223; two semesters of chemistry.* A study of the general principles by which plants function. Three areas discussed are transport and translocation of water and solutes, metabolism with special emphasis on photosynthesis, and plant growth and development.

BIOL 403. MOLECULAR BASIS OF CANCER. (3) *Prerequisites: BIOL 319 / 322.* Biological and molecular features of oncogenesis and clinical cancer, focusing on specific molecular events underlying carcinogenesis, metastasis, and angiogenesis. Case study learning is integrated into the course to help students understand the societal implications of cancer.

BIOL 404. TECHNIQUES AND THEORY OF ELECTRON MICROSCOPY. (4) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor.* A course in the fundamentals of electron microscopy including basic theory, techniques for specimen preparation and photography, and operation of the electron microscope. ***Course Fee***

BIOL 405. AQUATIC INSECT DIVERSITY. (3) *Prerequisites: BIOL 224 / 225 or consent of instructor*. The taxonomy and biology of the insects commonly encountered in freshwater habitats.

BIOL 407. VIROLOGY. (3) *Prerequisites: BIOL 319 and BIOL 322.* Study of bacterial, animal and plant viruses. Emphasis on the molecular aspects of the viral life cycle and pathogenesis.

BIOL 411. CELL BIOLOGY. (3) *Prerequisites: BIOL 319 and BIOL 322 or BIOL 327 and BIOL 337.* A lecture series emphasizing the morphological and chemical make-up of cells, the physical and chemical properties of the cell, and modern techniques for investigation of cellular functions.

BIOL 412. CELL BIOLOGY LABORATORY. (1) *Prerequisites / concurrent prerequisite: BIOL 411.* A laboratory course correlated with BIOL 411. ***Course Fee***

BIOL 420. INTRODUCTION TO TOXICOLOGY. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher or consent of instructor; CHEM 314 or equivalent.* Toxicology is the study of the adverse effects of inorganic and organic molecules on living organisms. The course will provide an understanding of the basic principles of toxicology for undergraduate majors and minors in the natural sciences.

BIOL 440. DEVELOPMENTAL GENETICS. (3) *Prerequisites: BIOL 319 and BIOL 322 or BIOL 327 and BIOL 337.* A descriptive investigation of the genetic and biochemical processes that regulate development of microbes, plants and animals.

BIOL 446. BIOCHEMISTRY I. (3) *Prerequisite: CHEM 314 or 340 with grades of "C" or better.* A study of biochemical compounds and their role in intermediary metabolism. Special topics include biochemical energetics and coenzyme mechanisms. Equivalent to CHEM 446.

BIOL 447. BIOCHEMISTRY LABORATORY. (2) *Prerequisite or corequisite: BIOL 446 or CHEM 446 with a grade of "C" or better*. A basic laboratory study involving selected experiments which illustrate biochemical principles including separation, identification and chemical properties of carbohydrates, lipids, proteins and enzymes. Equivalent to CHEM 447. ***Course Fee***

BIOL 450. RECOMBINANT GENE TECHNOLOGY. (3) *Prerequisites: BIOL 350.* Discovery-based laboratory emphasizing application of basic techniques to solve student-defined problems. Problems in characterization and expression of genetic material are explored. ***Course Fee***

BIOL 456. ICHTHYOLOGY. (4) *Prerequisites: BIOL 224 / 225 or permission of instructor.* A survey of the fishes of the world, their physiology, structure, behavior, and ecology. Special emphasis will be placed upon the collection and identification of freshwater species of Kentucky.

BIOL 457. HERPETOLOGY. (4) *Prerequisites: BIOL 224 / 225 with a grade of "C" or higher or consent of instructor.* The diversity, biology, and conservation of reptiles and amphibians. Off-campus travel will be required.

BIOL 458. FISHERIES MANAGEMENT. (4) *Prerequisites: BIOL 224 / 225.* A study of the factors affecting fish populations. Topics covered include life history traits, sampling techniques, management practices, and policies regulating the management of fish populations. Off-campus and overnight weekend field trips and a course fee are required. ***Course Fee***

BIOL 459. MAMMALOGY. (3) *Prerequisites: BIOL 224 / 225.* Taxonomy, life history and ecology of the mammals. Laboratory work includes field studies and collection and study of specimens in the laboratory.

BIOL 460. PARASITOLOGY. (4) *Prerequisites: BIOL 224 / 225.* A study of the morphology, physiology, life histories, control and economic significance of representative species. ***Course Fee***

BIOL 464. ENDOCRINOLOGY. (3) *Prerequisites: BIOL 319 and BIOL 322.* A study of the structure and function of the endocrine glands and their role in the physiological communication and regulation.

BIOL 467. BIOCHEMISTRY II. (3) *Prerequisite: BIOL / CHEM 446.* A study of the reactions of living systems and an introduction to the mechanisms and energetics of metabolism. Equivalent to CHEM 467.

BIOL 470. PATHOGENIC MICROBIOLOGY. (4) *Prerequisites: BIOL 226 / 227.* A study of the organisms causing disease with emphasis on bacteria. The course will survey pathogenic bacteria, viruses, fungi, and protozoa.

BIOL 472. APPLIED AND ENVIRONMENTAL MICROBIOLOGY. (4) *Prerequisites: BIOL 207 / 208 or BIOL 226 / 227.* A study of the roles of microorganisms in food preservation, fermentation, spoilage and food intoxication. Production of microbial products of industrial interest; application of modern microbiological techniques to industrial processes; interrelationships between microorganisms and their environment.

BIOL 475. SELECTED TOPICS IN BIOLOGY. (1-3) *Prerequisite: Consent of instructor.* A consideration of special topics to acquaint the advanced student with significant problems and developments of current interest in biology. May be repeated with a maximum of 6 hours counted for graduation.

BIOL 477. MARINE BIOLOGY. (3) *Prerequisites: BIOL 224 / 225 or consent of instructor.* Marine organisms are examined within a framework of basic biological principles and processes that are fundamental to all forms of life in the sea, including evolution, ecology, biodiversity, biogeography, behavior, and physiology.

BIOL 485. FIELD BIOLOGY. (1-4) *Prerequisites: Major or minor in the life sciences and consent of instructor.* An intensive field experience on a specific biological or ecological topic. ***Course Fee***

BIOL 489. PROFESSIONAL ASPECTS OF BIOLOGY. (1) *Prerequisites: BIOL 315 or BIOL 316 or BIOL 319 or BIOL 327 and senior status.* Current topics and the role of science in society, participation in seminars, evaluation of biological skills and knowledge, preparation for careers in biology, and construction of an alumnus action plan.

BIOL 490. PLANTS AS ALTERNATIVE THERAPEUTICS. (3) *Prerequisites: BIOL 120 / 121 and BIOL 122 / 123 with grades of "C" or higher.* Exploration of plants used in traditional medicine with emphasis on pharmacological implications as evidenced in modern clinical research. Examines therapeutic actions of phytochemicals on major human illnesses.

BIOL 492. CLINICAL INTERNSHIP IN MEDICAL TECHNOLOGY. (8)
Prerequisites: Student must have completed the course requirements in medical technology and have been accepted to an accredited medical technology school. An internship in an accredited medical technology school with a curriculum that includes both daily instruction in basic theory and corresponding laboratory experience.

BIOL 493. CLINICAL INTERNSHIP IN MEDICAL TECHNOLOGY. (14)
Prerequisites: Student must have completed the course requirements in medical technology and have been accepted to an accredited medical technology school. An internship in an accredited medical technology school with a curriculum that includes both daily instruction in basic theory and corresponding laboratory experience.

BIOL 494. CLINICAL INTERNSHIP IN MEDICAL TECHNOLOGY. (14)
Prerequisites: Student must have completed the course requirements in medical technology and have been accepted to an accredited medical technology school. An internship in an accredited medical technology school with a curriculum that includes both daily instruction in basic theory and corresponding laboratory experience.

BIOL 495. MOLECULAR GENETICS. (3) *Prerequisite: BIOL 319 or BIOL 327 or consent of instructor.* A study of the molecular basis of genetics in prokaryotic and eukaryotic organisms.

BIOL 496. PLANT BIOTECHNOLOGY. (4) *Prerequisites: BIOL 319 and BIOL 322 and AGRO 110 or BIOL 222 / 223.* A course designed to illustrate the current advances in plant biotechnology and their potential application in agriculture, health and environment.

BIOL 497. AQUATIC FIELD ECOLOGY. (4) *Prerequisites: BIOL 222 / 223 or BIOL 224 / 225 or BIOL 226 / 227; CHEM 120 / 121 and junior standing.* An integrated study of aquatic ecosystem structure and function including the physical and chemical properties of water and application of biological field methods. This course requires off-campus and overnight travel. ***Course Fee***

BLNG – Biblical Languages
Department of Philosophy and Religion

BLNG 152. BIBLICAL LANGUAGES I: INTRODUCTORY HEBREW. (3) A study of the vocabulary, grammar, and syntax of Biblical Hebrew. Equivalent to RELS 152.

BLNG 153. BIBLICAL LANGUAGES II: INTERMEDIATE HEBREW. (3)
Prerequisite: RELS 152 or BLNG 152. Further development of an understanding of the fundamentals of the Hebrew language with special attention to the reading of selected portions of the Old Testament. Equivalent to RELS 153. ***Fulfills World Language with a grade of C or better.***

BLNG 154. BIBLICAL LANGUAGES III: INTRODUCTORY GREEK. (3) A study of the vocabulary, grammar, and syntax of Koine Greek. Equivalent to RELS 154.

BLNG 155. BIBLICAL LANGUAGES IV: INTERMEDIATE GREEK. (3)
Prerequisite: RELS154. Further development of an understanding of Koine Greek with readings in the New Testament and Hellenistic literature. Equivalent to RELS 155. ***Fulfills World Language with a grade of C or better.***

BUS– Business Management
School of Professional Studies

BUS 100C. INTRODUCTION TO BUSINESS. (3) The management process, production, marketing, finance accounting, personnel and other functional activities are discussed. ***Colonnade E-SB | SB***

BUS 102C. INTRODUCTION TO ETHICAL ISSUES IN BUSINESS. (3) This course will introduce students to the role of ethics of business in a complex, dynamic, global environment. This course will assist students to recognize, apply and appreciate the role of ethics in business decisions.

BUS 110C. BASIC ACCOUNTING I. (3) This course serves as a basic introductory accounting course for students pursuing an associate of arts degree program. It introduces the beginning concepts, principles, and procedures of accounting in a systematic fashion. (NOTE: Will not transfer as ACCT 200 or 201.)

BUS 210C. ORGANIZATION AND MANAGEMENT. (3) An introduction to organization theory and organizational behavior. The course focuses on managing people and material resources to enhance organizational productivity and effectiveness. Attention is given to the managerial functions of planning, organizing, leading and controlling.

BUS 212C. PRINCIPLES OF MARKETING. (3) Presents the problems of marketing and the ways today's marketers solve them. The course focuses on concepts and principles of theory and practice through the use of practical examples and cases. Studies include market planning, research, strategies, distribution, promotion, pricing, market segmentation, and consumer-oriented marketing.

BUS 214C. BUSINESS COMMUNICATION. (3) A study of communication processes in business with an emphasis on correct language and grammar. Included is functional correspondence which leads to effective communication, such as letters, reports, memos.

BUS 225C. RECORDS AND INFORMATION MANAGEMENT. (3) Management of records from creation to disposal. Included are the principles and procedures of organizing, operating and controlling traditional, automated, and special records.

BUS 226C. INTRODUCTION TO LAW. (3) Nature of law and the legal process, contract and the Uniform Commercial Code are stressed.

BUS 230C. INTERNSHIP-BUSINESS. (1-6) *Prerequisites: Director and instructor's permission and must be a sophomore with a minimum GPA of 2.0.* Provides the advanced student with an opportunity for civic engagement, explore on-site job opportunities, and enhances marketability. The internship includes a project and activities that enhance professional growth and development. (Grading: Pass / Fail)

BUS 244C. INTRODUCTION TO HUMAN RESOURCES INFORMATION SYSTEMS. (2) This course will introduce students to the numerous concepts of Human Resources Information Systems, including topics such as hardware and software, database systems, business intelligence, information and decision support systems, and systems development.

BUS 245C. MANAGING DIVERSITY IN THE WORKPLACE. (3) This course will introduce students to the concepts of managing / supervising employees from a supervisor's perspective in a work setting for a diverse background.

BUS 248C. SUPERVISORY MANAGEMENT. (3) A practical approach to understanding and dealing with the problems faced by first-line supervisors.

BUS 249C. EMPLOYEE BENEFITS PROGRAMS. (2) Investigates and surveys employee benefits planning to include selection, cost control and viability of employee benefits programs.

BUS 250C. BUSINESS ENTREPRENEURSHIP. (3) A study of small business, emphasizing the development of a written business plan. Includes legal forms of organization, strategic planning, financing, marketing research, taxation, risk management, management principles, and Total Quality Management (TQM).

BUS 252C. SELLING AND SALES MANAGEMENT. (3) The role of selling and distribution, basic sales methods and techniques and management of the sales function.

BUS 253C. MANAGEMENT CAPSTONE. (3) *Prerequisite: 30 credit hours in the program or permission of program advisor.* Designed to assess students' learning from the courses in their major and other courses of the curriculum. Provides students with an opportunity to demonstrate that they have acquired the necessary skills for a successful integration into the workplace.

BUS 254C. OFFICE ADMINISTRATION. (3) Includes work relationships, leadership roles, team membership, problem solving skills, and the use of technology.

BUS 257C. MANAGEMENT OF HUMAN RESOURCES. (3) A course designed to emphasize the practical aspects of the management of human resources. Includes employment law, compensation, recruitment, selection, training and development, performance appraisal, labor-management relations, and employee rights.

BUS 270C. LABOR RELATIONS MANAGEMENT. (3) *Prerequisite: BUS 248C or permission of instructor.* This course is designed to address the legal and social context of the labor-management relationship; historical and contemporary developments in collective bargaining; work stoppages, impasse and dispute resolution; problems and anticipated developments in labor relations; union elections; union avoidance, as well as contract negotiations and preparation for bargaining.

CD– COMMUNICATION DISORDERS
DEPARTMENT OF COMMUNICATION SCIENCES AND DISORDERS

CD 090. LAB SPEECH IMPROVEMENT. (3) This course is designed to provide individualized speech-language therapy for WKU students who require assistance in their speaking or comprehension of English language skills. Therapy is delivered by student clinicians under the supervision of certified speech-language pathologists. (Grading: Pass / Fail)

CD 200. CROSS CULTURAL HEALTH CARE ENCOUNTERS. (1) Provides the opportunity to understand and analyze cross-cultural issues related to communication that emerge in health care settings, particularly during a patient-provider encounter.

CD 210. COMMUNICATION DISORDERS IN LINGUISTICALLY DIVERSE POPULATIONS. (3) Foundation for the identification, evaluation, and treatment of communication disorders in clients from diverse cultural and linguistic backgrounds.

CD 220. IMPLEMENTING AND MANAGING A LANGUAGE ACCESS SERVICE. (3) Implementation and maintenance of successful language access services in health care facilities. Addresses the legal and administrative aspects of language access programs and services.

CD 230. MEDICAL INTERPRETING SKILLS. (3) *Prerequisites: AH 290; score of "intermediate-high" or above on American Council on Teaching Foreign Language (ACTFL). Information regarding this test and associated fees can be found at www.actfl.org.* Introduces and builds the skills necessary for a bilingual student to become a professional medical interpreter. It also examines the various roles of the professional medical interpreter.

CD 280. INTRODUCTION TO COMMUNICATION SCIENCES AND DISORDERS. (3) Orientation course to the profession introduces prospective students of speech pathology and audiology to the general areas of prevention, identification, diagnosis, evaluation, and treatment as related to the management of communication disorders. Includes a basic introduction to the anatomy, physiology, and etiologies of the ear.

CD 290. INTRODUCTION TO CLINICAL EXPERIENCE. (1) Provides speech pathology / audiology students with opportunities to observe a minimum of 25 hours of treatment for communication disorders in children and adults. (Grading: Pass / Fail)

CD 347. SCIENCE OF SPEECH AND HEARING. (3) Overview of the linguistic, psycholinguistic, and sociolinguistic variables of speech and hearing. Basic orientation to instruments for measuring acoustic parameters.

CD 348. INTRODUCTION TO CLINICAL RESEARCH AND WRITING IN COMMUNICATION SCIENCES AND DISORDERS. (3) Introduction to clinical research methods and writing for professional reports and publication in speech language pathology and audiology. The course provides an overview of discipline specific research strategies, methods, and goals of clinical research. A primer in scientific and professional writing for speech language pathology specific clinical settings and journals is also covered.

CD 405. APPLIED PHONETICS. (3) *Prerequisites: Admission to the major.* Study of distinctive feature systems that classify consonants and vowels, the definitions of phonological process terminology, and practice in broad and narrow transcription of words and connected speech.

CD 433. COMMUNICATION EVALUATION IN AUTISM SPECTRUM DISORDERS. (3) *Prerequisite: CD 485 or permission of the instructor.* Communication diagnostic considerations employed when assessing language in individuals with diagnoses along the Autism Spectrum Disorder (ASD) continuum; formal and descriptive assessment is presented with case study methodology.

CD 434. COMMUNICATION INTERVENTION IN AUTISM SPECTRUM DISORDERS (3) *Prerequisite: CD 433 or permission of the instructor.* Communication intervention considerations and evidence-based strategies are presented for individuals diagnosed within the Autism Spectrum Disorder (ASD) continuum; use of evidence-based strategies and case study methodology.

CD 440. PHONOLOGY AND LANGUAGE DISORDERS. (3) *Prerequisites: CD 405, 481.* Study of the etiology, assessment and treatment of phonological and language disorders in children and adolescents.

CD 472. SPECIAL TOPICS IN COMMUNICATION DISORDERS. (1-3) *Prerequisite: Permission of instructor.* An in-depth examination of a topic of current interest and relevance to students majoring in Communication Disorders or minoring in ASL. Repeatable to a maximum of 6 hours of credit.

CD 478. CLINICAL ISSUES AND TREATMENT IN SPEECH LANGUAGE PATHOLOGY. (3) *Prerequisites: Acceptance into CD program.* Overview of specified speech and language disorders that may be encountered in a clinical setting. Outcomes based treatment will be discussed.

CD 481. SPEECH AND LANGUAGE DEVELOPMENT. (3) *Prerequisites: Acceptance into CD program.* Introduction to development of speech and language across the lifespan with emphasis on comprehensive child development. Topics include development of speech and language, play, cognition, socialization, and emerging literacy.

CD 482. AUDIOLOGY. (3) *Prerequisites: Acceptance into CD program.* Review of basic speech science, ear anatomy, physiology and pathology. Training in auditory testing by speech, pure tone, and bone conduction. Testing techniques for pediatric populations.

CD 483. INTRODUCTION TO DISORDERS OF ARTICULATION AND PHONOLOGY. (3) *Prerequisites: CD 405 and Acceptance into CD program.* Study of the etiology, evaluation, and management of phonological process proficiency in children. Includes dialectal and bilingual differences. Stresses proficiency in administering protocols and planning therapy using several approaches.

CD 484. SPEECH ANATOMY AND PHYSIOLOGY. (3) *Prerequisites: Acceptance into CD program.* Designed to help students identify the structures and functions which comprise the speech and hearing mechanism. The relation of this mechanism to the production and development of speech and language will be addressed.

CD 485. INTRODUCTION TO ASSESSMENT IN COMMUNICATION DISORDERS. (3) *Prerequisites: CD 405, 481, 484 and Acceptance into CD program.* Focus on assessment using standardized and nonstandardized screening and diagnostic instruments. Development of formal and informal evaluation techniques common to speech pathology / audiology. Overview of data gathering and interpretation regarding communication functions in persons of all ages. Includes multicultural assessment tools and methods.

CD 486. LANGUAGE DISORDERS. (3) *Prerequisites: CD 405, 481, 484 and Acceptance into CD program.* Identification, diagnosis, and treatment approaches used with language delayed children. Covers current state and federal legislation as related to service delivery models. Evaluation strategies include language sampling and report writing. Treatment approaches based on medical and educational models with emphasis on functional language therapy.

CD 487. AURAL REHABILITATION. (3) *Prerequisites: CD 482 and Acceptance into CD program.* Includes terminology, diagnostic procedures (with emphasis on early identification) and habilitation / rehabilitation programs such as manual and total communication for pediatric through geriatric populations.

CD 488. AUGMENTATIVE COMMUNICATION SYSTEMS. (3) *Prerequisites: CD 405, 481, 483, 485, 486 and Acceptance into CD program.* Focus on terminology and issues in alternative / augmentative communication. Teaches about various nonelectrical and electrical communication aids and techniques with special emphasis on rationale for device selection based on client needs. Dismissal summaries. Student must maintain availability for clinic assignments of Tuesdays and Thursdays. Student must maintain availability Tuesdays, Wednesdays, and Thursdays. Supervised clinical experience, including experience with individual and group therapy.

CD 489. COMMUNICATION DISORDERS IN AGING. (3) *Prerequisites: Senior status and Acceptance into CD program, or instructor permission.* Teaches about symptoms, causes, and treatment of speech, language, and hearing disorders in the geriatric population.

CD 490. CONNECTING WITH NONVERBAL COMMUNICATORS. (3) *Prerequisites: CD 481, CD 486; Acceptance into CD program, senior status or instructor's permission.* Overview of preverbal communication development, nonverbal expression, and disorders associated with complex syndromes. Focus is on language intervention strategies used with individuals who have complex syndromes and / or medical conditions.

CD 491. MANAGEMENT OF COMMUNICATION DISORDERS IN THE SCHOOL. (3) *Prerequisites: Senior status and Acceptance into CD program*. Focus on assessment techniques; therapy approaches; case selection; scheduling; program planning; program evaluation; and federal, state and local legislation for school support services. Also addresses service delivery to culturally diverse populations.

CD 492. NEUROANATOMY IN COMMUNICATION SCIENCES AND DISORDERS. (3) *Prerequisites: CD 482, 484; and Acceptance into CD program.* Introduction to the study of brain, central nervous system, and peripheral nervous system and its relation to the field of communication sciences and disorders. Normal and abnormal development will be addressed. Diagnostic procedures and intervention techniques are discussed.

CD 495. CLINICAL INTERNSHIP. (2-3) *Prerequisites: CD 478, 483, 485, 486, 487 and Acceptance into CD program.*. Introduction to therapeutic process by beginning the transition from theory to practice. Clinical documentation; therapeutic planning and implementation; and case study analysis are addressed. ***Course Fee***

CD 496. INTERNATIONAL SPEECH PATHOLOGY. (3) *Prerequisite: Enrolled as a Communication Disorders major at WKU or instructor permission.* A study abroad course that provides students with an opportunity to acquire knowledge and understanding of speech pathology services in other countries. Emphasis on the identification of different methodologies employed by clinicians in other countries for treating communication disorders in adults and children.

CE– CIVIL ENGINEERING
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

CE 160. PRINCIPLES OF SURVEYING. (3) *Prerequisites: High School Algebra & Trigonometry. Corequisite: CE 161.* A study of the basic principles of surveying. Topics include: field note-taking, taping distances, differential leveling, profile leveling, angular measurements, bearings and azimuths, EDM, traversing, topographic mapping, and construction stakeout. The use and care of surveying equipment includes: automatic levels, theodolites, pocket transits, total stations, and data collectors.

CE 161. PRINCIPLES OF SURVEYING LAB. (1) *Corequisite: CE 160.* Field and office procedures in support of material studied in CE 160. ***Course Fee***

CE 175. UNIVERSITY EXPERIENCE- CIVIL ENGINEERING. (2) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources and personal development, with special attention given to Civil Engineering careers and design. The design process is introduced through hands-on projects.

CE 176. CIVIL ENGINEERING FRESHMAN DESIGN. (1) *Prerequisite: For transfer or change of major students who have earned at least 24 semester hours of credit or have completed a course equivalent in content to the generic WKU University Experience course, or permission of instructor. Corequisite: MATH 117 or higher.* An introduction to civil engineering and its specialties. Topics include a brief overview of: surveying, water resources, transportation, and construction, geotechnical, and structural engineering. The design process and the importance of public safety are emphasized. Students will complete a simple design project. ***Course Fee***

CE 300. FLOODPLAIN MANAGEMENT. (3) *Prerequisite: Junior standing or approval of the instructor.* Introduction to federal and local regulations governing floodplain management, the National Flood Insurance Program, and flood maps. Successful completion of the class requires passing the Certified Floodplain Manager Exam (CFM) within a maximum of two attempts. Students will be required to pay the exam fee (s) to the Association of State Floodplain Managers. ***Course Fee***

CE 301. FIELD EXPERIENCE IN FLOODPLAIN MANAGEMENT. (3) *Prerequisite: junior standing.* Field study and mitigation techniques for river flooding, karst flooding, flash flooding, alluvial fan flooding, tropical storms or a combination of these. Course involves travel.

CE 303. CONSTRUCTION MANAGEMENT. (3) *Prerequisites: MATH 127 or higher, Sophomore standing. Corequisite: CE 304.* The study of planning, administration, and management of construction projects and an introduction to the methodology utilized in executing specific designs. Emphasis is placed on the organization of construction firms, development of construction documents, theory of estimating and quantity take-offs, contractual and management systems, scheduling, project administration and inspection of construction operations.

CE 304. CONSTRUCTION MANAGEMENT LAB. (1) *Corequisite: CE 303.* Extension of CE 303 lecture course. Skills related to Construction Management will be covered in a laboratory setting including plan reading, specification reading, construction scheduling and estimating using industry standard state-of-the-practice software and hardware, and other applied tasks. ***Course Fee***

CE 305. RISK ANALYSIS. (3) *Prerequisite: MATH 137.* Uncertainty and methods for risk analysis for engineering systems including engineering economics, probabilistic and statistical methods, and Monte Carlo simulation with applications to civil, electrical, and mechanical engineering.

CE 310. STRENGTH OF MATERIALS LABORATORY. (1) *Prerequisites: MATH 137, and EM 221 or EM 222. Corequisite: EM 302 or EM 303.* Implementation of fundamental principles and physical laws governing the response of structural components to external forces. Students will plan, conduct and report on experiments to measure the performance characteristics of materials and structural systems. ***Course Fee***

CE 316. EQUIPMENT & METHODS. (3) *Prerequisite: MATH 117 or higher, Sophomore standing.* Study of construction operations as a dynamic process. Primary topics include earthmoving optimizing equipment for best production, foundation construction, concrete, masonry and steel construction methods, concrete formwork design, construction safety and construction productivity. Field trips will be incorporated. ***Course Fee***

CE 326. ENGINEERING LAW. (3) Introduction to law and judicial procedures as they relate to the practicing engineer. Contracts, professional liability, professional ethics, licensing, bidding procedures, intellectual property, products liability. Emphasis on development of critical thinking process, abstract problem analysis and evaluation.

CE 332. TRANSPORTATION ENGINEERING. (3) *Prerequisites: CE 160 and 161, EM 222, PHYS 255.* An introduction to transportation engineering. Development of transportation systems in the United States. Route geometrics and design. Traffic flow characteristics and control. Planning, financing, and economic analysis of transport facilities.

CE 342. FLUID THERMAL SCIENCE. (4) *Prerequisites: MATH 237, EM 221 or EM 222, and Civil Engineering major status.* Conservation of fluid mass and momentum, forces in fluids, pipe flow, fluid measurements, pump systems, hydrodynamic drag, open channel flow, and introduction to thermodynamics. Students may not earn credit for both CE 341 and CE 342.

CE 352. INTRODUCTION TO ENVIRONMENTAL ENGINEERING. (3) *Prerequisites: MATH 331 and CHEM 120.* Introduction to the fundamental principles of environmental engineering. Topics in water quality, water, and wastewater treatment, air quality, and solid waste and landfills are discussed.

CE 360. ESTIMATING SCHEDULING BIDDING. (3) *Prerequisite: CE 303. Corequisite: CE 361.* Investigates the principles of cost estimating, scheduling, and preparing bid documents for construction projects. Topics include feasibility studies, preliminary and detailed estimating, sequencing of tasks, tracking time and cost and variance analysis. State-of-the-practice computer applications for estimating and scheduling will be stressed in the lecture as well as the corequisite laboratory.

CE 361. ESTIMATING LAB. (1) *Prerequisite: CE 303. Corequisite: CE 360.* Extension of CE 360 lecture course. Traditional and computer tools will be applied to construction estimating and scheduling. Techniques for quantity take offs and computer scheduling will be covered.

CE 370. MATERIALS OF CONSTRUCTION. (2) *Prerequisite: EM 302 or 303. Corequisite: CE 371.* An introduction to construction materials focusing on aggregate, concrete, masonry, asphalt, timber and construction materials inspections. Topics will include material properties, applications, production and physical characteristics. Students will have the opportunity to become Level I certified through the American Concrete Institute.

CE 371. CONSTRUCTION MATERIALS LABORATORY. (1) *Corequisite: CE 370.* The laboratory component of CE 370 Construction Materials. Projects include aggregate sieve analysis and specific gravity, asphalt sample preparation and strength testing using Superpave, and concrete strength, slump and air content. ***Course Fee***

CE 378. ROUTE SURVEYING. (3) *Prerequisites: CE 160,161 and AMS 163. Corequisite: CE 379.* Horizontal alignment of simple curves, compound curves, and spirals; vertical alignment using equal and unequal tangent parabolic curves in conjunction with road gradients; superelevations; slope stakes; earthwork calculations including volumes and mass diagrams.

CE 379. ROUTE SURVEYING LAB. (1) *Prerequisites: CE 160 and CE 161. Corequisite: CE 378.* Field and office procedures in support of content in CE 378. ***Course Fee***

CE 380. BOUNDARY SURVEYING. (3) *Prerequisites: CE 160,161, and AMS 163. Corequisite: CE 381.* A study of the principles of land surveying. Topics include: boundary descriptions, deeds, horizontal and vertical control, traverse computations, US Public Land Surveys, metes and bounds, property law, partitioning of land, restoring lost corners, right of ways, easements, and minimum standards for boundary surveys.

CE 381. BOUNDARY SURVEYING LAB. (1) *Corequisite: CE 380.* Field and office procedures in support of material covered in CE 380. ***Course Fee***

CE 382. STRUCTURAL ANALYSIS. (3) *Prerequisite: EM 302 or 303. Prerequisite or Corequisite: MATH 237.* Modeling of real structural systems; loads and building codes; analysis of statically determinate and indeterminate planar structures including displacements, internal forces and influence lines; exact and approximate techniques. ***Course Fee***

CE 383. STRUCTURAL STEEL DESIGN. (3) *Prerequisite: CE 382.* Principles of the design of steel structures using the LRFD method. Design topics include axial tension and compression members, flexural members, beam-columns, connections, framing systems and design codes. Additional topics include influence of non-technical factors such as availability, economy and constructability. ***Course Fee***

CE 384. REINFORCED CONCRETE DESIGN. (3) *Prerequisite: CE 382.* Design of reinforced concrete structures using the ACI Building Code. Design includes compression members, flexural members, foundations and one-way slabs. ***Course Fee***

CE 400. CIVIL ENGINEERING SENIOR DESIGN SEMINAR. (2) *Prerequisites or corequisites: Senior standing and consent of the instructor.* Professional, ethical and decision-making issues related to the civil engineering design process. Structured small group discussions, oral presentations, and written assignments. Students will complete proposals for CE 498 during this course. Must be taken semester prior to CE 498.

CE 410. SOIL MECHANICS. (3) *Prerequisites: GEOL 111, 113, and EM 302 or 303. Corequisite: CE 411.* A study of soils and their properties. Stress-strain analysis, horizontal and vertical stress distribution, consolidation and settlement, soil classification, compaction, static lateral earth pressure, permeability and flow nets, bearing capacity and slope stability, and foundation construction.

CE 411. SOIL MECHANICS LAB. (1) *Corequisite: CE 410.* The laboratory component of CE 410 – Soil Mechanics. Projects include collection of soil samples in the field, observation of soil drilling and field testing equipment, classification of soils, plasticity testing, liquid limit, plastic limit, standard and modified proctor compaction test, nuclear density testing, and soil strength testing. ***Course Fee***

CE 412. FOUNDATION ENGINEERING. (3) *Prerequisite: CE 410, 411.* A continuation of CE 410-Soil Mechanics focusing on the design and construction of shallow and deep foundations. Additional topics will include slope stability analysis and advanced discussions of retaining wall design and subsurface investigations.

CE 426. ADVANCED CONSTRUCTION MATERIALS. (3) *Prerequisite: CE 370.* Continuation of CE 370. Topics focus on highway construction and include soil stabilization, bituminous materials and mixtures, general highway materials and construction of rigid and flexible pavements.

CE 436. DESIGN / CONSTRUCTION INTEGRATION. (3) *Prerequisite: Senior standing.* The integration of the design and construction process. Using constructability concepts during the design process. Topics include value engineering, operation and maintenance, design from a construction standpoint, environmental concerns, cost analysis, alternative methods, and aesthetics.

CE 440. MASONRY DESIGN AND CONSTRUCTION. (3) *Prerequisites: EM 302 or 303, and CE 370 and 371. Corequisite: CE 441.* Principles in the design and construction of masonry structures in accordance with the American Concrete Institute. Current and historical properties of brick, natural block, natural stone, mortar, grout and reinforcement. Design and constructability of masonry columns, shear walls, and unreinforced and reinforced masonry structures.

CE 444. BRIDGE ENGINEERING. (3) *Prerequisite: CE 384 or CE 482 or CE 483.* A practice-based introduction to bridge engineering, exploring the design, behavior, maintenance and rehabilitation of bridges. Bridge loads, reinforced and prestressed concrete slab and T-beam bridges, steel beam bridges, composite beam bridges, bridge evaluations and ratings, and upgrade methodologies are covered based on AASHTO code requirements using the LRFD design methodology. Abutments, piers, joints, bearings, and connections are also included. Nontechnical topics such as public perception of the nation's infrastructure with respect to bridges will be discussed.

CE 461. HYDROLOGY. (3) *Prerequisites: MATH 331, CE 160, and CE 341 or CE 342. Corequisites: CE 305 or STAT 301.* A study of the physical laws affecting the occurrence, distribution, movement, storage, and contamination of water in watersheds. Qualitative analysis and quantitative modeling of precipitation, evapotranspiration, infiltration, groundwater, and stream flow. Models of contamination of rivers, lakes, soils, and groundwater. Applications to engineering design under extreme events, and environmental engineering.

CE 462. HYDRAULIC ENGINEERING SYSTEMS. (3) *Prerequisites: MATH 331 and CE 461.* Methods of analysis for hydrostatics, pipe flow, open channel flow including uniform and gradually varied flow, culvert and channel hydraulic design, dimensional analysis and channel modeling for flood mapping.

CE 474. CIVIL ENGINEERING DESIGN PROJECT. (1-3) *Prerequisite: Permission of instructor.* An independent study course in which students complete an engineering design project of their choice under the guidance of a faculty advisor. May be repeated for a maximum of 3 hours.

CE 475. SELECTED TOPICS IN CIVIL ENGINEERING. (3) *Prerequisite: Permission of instructor.* Advanced special topics delivered by WKU faculty to acquaint undergraduate students with significant problems and developments of current interest in civil engineering. Course is repeatable (with different topics) two times.

CE 476. HIGHWAY CONSTRUCTION. (3) *Prerequisite: CE 370.* An in-depth study of certain phases of highway engineering and construction including geometric design, planning, traffic flow, highway capacity analysis, and economic analysis.

CE 482. WKU-ELEMENTARY STRUCTURAL DESIGN. (3) *Prerequisite: CE 382.* Applications of principles of solid mechanics to the design of steel, timber and reinforced concrete members and structures. Emphasis is on basic ideas and their application to practical design of relatively simple structures according to the building code.

CE 486. STEEL & CONCRETE CONSTRUCTION. (3) *Prerequisite: CE 316.* Planning and field engineering for concrete and steel construction. Design and applications of concrete formwork to construction. Erection of structural steel. Safety and Building Codes.

CE 490. UK-CE SELECTED TOPICS (FALL). (3) *Prerequisite: Permission of instructor.* Advanced special topics delivered in the fall semester by UK faculty to acquaint undergraduate students with significant problems and developments of current interest in civil engineering. Course is repeatable (with different topics) two times. Permission of instructor only.

CE 491. UK-CE SELECTED TOPICS (SPRING). (3) *Prerequisite: Permission of the instructor.* Advanced special topics delivered in the spring semester by UK faculty to acquaint undergraduate students with significant problems and developments of current interest in civil engineering. Course is repeatable (with different topics) two times. Permission of instructor only.

CE 498. SENIOR PROJECT. (3) *Prerequisite: CE 400. Students* work on a multi-disciplinary civil engineering team to develop, design, test and build (if applicable) a civil engineering project. Students choose their own project, normally encompassing multiple areas of civil engineering practice. Teamwork and management are stressed.

CHEM– CHEMISTRY
DEPARTMENT OF CHEMISTRY (CHEM)

CHEM 101. INTRODUCTION TO CHEMISTRY. (3) A one semester terminal course covering applied chemistry and environmental considerations which can be used for general education requirements in the science field for non-science majors and minors. In-class laboratory constitutes 20 percent of class. It does not count toward a major or minor in chemistry nor does it satisfy the requirements for certain home economics and agriculture majors. ***Course Fee | Colonnade E-NS (SL) | NS | SL***

CHEM 105. FUNDAMENTALS OF GENERAL CHEMISTRY. (3) *Prerequisite: Two years of high school algebra or DMA 096C. Corequisite: CHEM 106.* The first half of a one-year course predominantly for majors in agriculture and consumer and family sciences, and for non-science majors desiring a full year sequence in chemistry. It does not count toward a major or a minor in chemistry. ***Colonnade E-NS | NS***

CHEM 106. FUNDAMENTALS OF GENERAL CHEMISTRY LABORATORY. (1) *Corequisite: CHEM 105.* Laboratory to accompany CHEM 105. Pre-lab lecture and laboratory meet two and one-half hours per week. ***Course Fee | Colonnade E-SL | SL***

CHEM 107. FUNDAMENTALS OF ORGANIC CHEMISTRY. (3) *Prerequisites: CHEM 105 and 106. Corequisite: CHEM 108.* A continuation of CHEM 105 with a major portion of the course devoted to organic chemistry which ends the one-year course for non-science majors. It does not count toward a major or minor in chemistry.

CHEM 108. FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY. (1) *Prerequisites: CHEM 105 and 106. Corequisite: CHEM 107.* The laboratory to accompany CHEM 107. A major portion of the course deals with experiments in organic and biochemistry. Pre-lab lecture and laboratory meet two and one-half hours per week. ***Course Fee***

CHEM 109. CHEMISTRY FOR THE HEALTH SCIENCES. (4) A course designed to emphasize the practical aspects of inorganic, organic and biochemistry as related to human health. The course is offered specifically for students in the allied health programs, but it is also recommended for students in physical education, recreation, health and safety and other disciplines dealing with human health. It does not count toward a major or minor in chemistry, but does satisfy general education requirement. ***Colonnade E-NS | NS***

CHEM 111. INTRODUCTION TO FORENSIC CHEMISTRY. (3) A combination of lecture and in-class laboratory activities designed to introduce the fundamentals of forensic chemistry including evidence collection and preservation, arson investigation, poisons and toxicity, determination of time of death, the chemistry of explosions, and DNA / blood analysis. In-class laboratory constitutes 20% of the class. ***Colonnade E-NS (SL) | NS | SL***

CHEM 116. INTRODUCTION TO COLLEGE CHEMISTRY. (3) *Prerequisite: MATH 116 or higher.* A one-semester course for students desiring a general survey of chemistry with a mathematical emphasis. An introductory course for College Chemistry students whose ACT score in mathematics would indicate marginal success in CHEM 120. Does not count toward a major / minor in chemistry nor does it satisfy the requirements for certain consumer and family science or agriculture majors. CHEM 106 laboratory is optional. ***Colonnade E-NS | NS***

CHEM 120. COLLEGE CHEMISTRY I. (3) *Prerequisite: Satisfactory MATH ACT score or equivalent or MATH 116 with a grade of "C" or better. Corequisite: CHEM 121.* The first half of the standard yearlong general chemistry course sequence for science majors and minors. ***Colonnade E-NS | NS***

CHEM 121. COLLEGE CHEMISTRY I LABORATORY. (2) *Corequisite: CHEM 120.* Laboratory to accompany CHEM 120. One third of each meeting is spent reviewing material from the lecture and the remaining time is used to carry out laboratory investigations. Pre-lab lecture and laboratory meet once each week for three hours per week. ***Course Fee | Colonnade E-SL | SL***

CHEM 222. COLLEGE CHEMISTRY II. (3) *Prerequisites: CHEM 120-121 with a grade of "C" or better. Corequisite: CHEM 223.* A continuation of the first year course in chemistry for science majors and minors.

CHEM 223. COLLEGE CHEMISTRY II LABORATORY. (2) *Corequisite: CHEM 222.* Laboratory to accompany CHEM 222. Laboratory to accompany CHEM 222. Pre-lab and laboratory meet for four hours per week. ***Course Fee***

CHEM 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or Ogden College faculty member recommendation.* To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, classification or instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count toward any major or minor.) Equivalent to BIOL 295, CS 295, ENGR 295, GEOL 295, MATH 295, and PHYS 295.

CHEM 299. INTRODUCTION TO CHEMICAL RESEARCH. (0-3) *Prerequisites: Consent of a faculty research advisor.* A course designed to introduce the student to independent chemical research. Each credit hour requires 2 ½ hours laboratory work per week with written and oral reports of laboratory work suggested. ***Course Fee***

CHEM 304. BIOCHEMISTRY FOR THE HEALTH SCIENCES. (4) *Prerequisite: CHEM 107 or CHEM 109.* A brief treatment of organic chemistry is used as an introduction to carbohydrates, lipids, proteins and nucleic acids emphasizing their functional roles in the biological system. Specific topics will include bioenergetics, enzymes, acid-base balance, hematology and immunology. The course is offered specifically for students in the four-year nursing program, but is also recommended for students in physical education, recreation, health and safety and other disciplines dealing with human health. This course does not count toward a major or minor in biology or chemistry.

CHEM 306. FOOD CHEMISTRY. (3) *Prerequisites: CHEM 107 / 108, or CHEM 109, or permission of instructor*. An understanding of the fundamental building blocks in food (proteins, lipids, carbohydrates, and minerals) and chemical, physical and biological phenomena that affect food quality, texture, flavor, and safety.

CHEM 314. INTRODUCTORY ORGANIC CHEMISTRY. (5) *Prerequisites: CHEM 222-223 with a grade of "C" or better.* A brief survey course primarily for various pre-professional and science area curricula requiring one semester of organic chemistry. ***Course Fee***

CHEM 320. PRINCIPLES OF INORGANIC CHEMISTRY. (3) *Prerequisites: CHEM 222-223 with a grade of "C" or better.* A treatment of the usual topics in theoretical inorganic chemistry presented at a level not requiring calculus..

CHEM 330. QUANTITATIVE ANALYSIS. (5) *Prerequisites: CHEM 222-223 with a grade of "C" or better.* A study of the common techniques and theory of gravimetric, volumetric, electrochemical, and optical methods of analysis. Lecture, 3 hours; laboratory, 2 hours. Laboratory meets found and one-half hours per week. ***Course Fee***

CHEM 340. ORGANIC CHEMISTRY I. (3) *Prerequisites: CHEM 222-223 with a grade of "C" or better. Corequisite: CHEM 341.* The first half of the standard one-year course for chemistry majors. Discussion includes various organic mechanisms and preparations. The entire sequence of CHEM 340-341, 342-343 should be completed. If only one semester of organic chemistry is desired, CHEM 314 should be taken.

CHEM 341. LAB ORGANIC CHEMISTRY I. (2) *Prerequisites: CHEM 222-223 with a grade of "C" or better. Corequisite: CHEM 340.* Laboratory work includes studies of typical organic reactions and preparations. ***Course Fee***

CHEM 342. ORGANIC CHEMISTRY II. (3) *Prerequisites: CHEM 340-341 with a grade of "C" or better. Corequisite: CHEM 343.* A continuation of CHEM 340.

CHEM 343. ORGANIC CHEMISTRY II LABORATORY. (2) *Prerequisites: CHEM 340-341 with a grade of "C" or better. Corequisite: CHEM 342.* Includes studies of typical organic reactions and an introduction to qualitative organic analysis. ***Course Fee***

CHEM 369. COOPERATIVE EDUCATION IN CHEMISTRY I. (3-6) Prerequisite*: Sophomore or junior standing.* Practical out-of-the classroom experience in a supervised work situation with a cooperating business, industry, or governmental agency, emphasizing laboratory skills in chemistry.

CHEM 389. COOPERATIVE EDUCATION IN CHEMISTRY II. (3-6) *Prerequisite: Junior standing.* Practical out-of-the classroom experience in a supervised work situation with a cooperating business, industry, or governmental agency, emphasizing laboratory skills in chemistry.

CHEM 398. UNDERGRADUATE SEMINAR. (1) *Prerequisite: Junior standing.* A formal introduction to the chemical literature culminating in a student presentation on a selected topic. A treatment pertaining to career opportunities for chemists, resume writing, interview techniques and outside speakers from industry and academics will be included.

CHEM 399. RESEARCH PROBLEMS IN CHEMISTRY. (1-3) *Prerequisites: Consent of a faculty research advisor.* Special research assignments in accord with the interest of the student. Requires a minimum of 3 hours laboratory work per week for each hour of credit. A written report of the work is required. ***Course Fee***

CHEM 412. INTRODUCTION TO PHYSICAL CHEMISTRY. (5) *Prerequisites: A grade of "C" or better in CHEM 314 or 340; CHEM 330; MATH 136; PHYS 231 or 255.* A study of the chemical principles involved in thermodynamics, kinetics, equilibrium, surface phenomena, macromolecules, molecular structure and other selected topics using biological examples. The course is specifically for secondary education students and those students not qualifying for the CHEM 450-452 sequence. It is not acceptable for the ACS-program students. ***Course Fee***

CHEM 420. INORGANIC CHEMISTRY. (3) *Prerequisites: A grade of "C" or better in CHEM 320 and CHEM 450- 451.* A study of such topics as atomic structure, molecular structure, bonding theory, ionic substances, electron deficient compounds, acid-base theory, coordination chemistry, and organometallic chemistry.

CHEM 421. INORGANIC CHEMISTRY LABORATORY. (1) *Prerequisite or corequisite: CHEM 420 with a grade of "C" or better.* A laboratory course emphasizing the synthesis and characterization of inorganic compounds of the main group and transition metals. Laboratory meetings once a week for three hours.

CHEM 425. POLYMER CHEMISTRY. (4) *Prerequisites: CHEM 342-343 and CHEM 330 with a grade of "C" or better*. The principles of polymer chemistry, synthesis of polymers, reactions of synthetic and biological polymers, thermodynamics and kinetics of polymerization, characterization of polymers such as molecular weights and morphology and fabrication and application of polymeric materials. ***Course Fee***

CHEM 430. FORENSIC CHEMISTRY. (3) *Prerequisites: CHEM 314 or 340 and CHEM 330 with a grade of "C" or better.* A study of the methods and instrumentation used in the crime laboratory and in the medical technology laboratory. Topics discussed will include drugs, blood enzymes, organic and inorganic analysis, gunshot residue, fingerprints, chromatography, spectrophotometry, electrochemistry and electrophoresis. ***Course Fee***

CHEM 435. INSTRUMENTAL ANALYSIS. (3) *Prerequisites: CHEM 330 and CHEM 340 with a grade of "C" or better. Corequisite: CHEM 346.* A course in modern instrumental methods of analysis including spectroscopic, electroanalytical and chromatographic techniques. ***Course Fee***

CHEM 436. INSTRUMENTAL ANALYSIS LABORATORY. (2) *Corequisite: CHEM 435.* A laboratory to accompany CHEM 435 focusing on techniques involving modern instrumental analysis. Pre-lab and laboratory meets 4.5 hours per week.

CHEM 440. INTRODUCTION TO SYNTHETIC ORGANIC METHODOLOGY. (3) *Prerequisite: CHEM 342 with a grade of "C" or better.* An advanced course designed to address a broad spectrum of topics including an overview of the year-long organic chemistry sequence and a systematic treatment of modern synthetic organic chemistry focusing on basic reactions and methodologies.

CHEM 446. BIOCHEMISTRY I. (3) *Prerequisite: CHEM 314 or 340 with a grade of "C" or better*. A study of biochemical compounds and their role in intermediary metabolism. Special topics include biochemical energetics and coenzyme mechanisms. Equivalent to BIOL 446.

CHEM 447. BIOCHEMISTRY LABORATORY. (2) *Prerequisite or corequisite: BIOL / CHEM 446 with a grade of "C" or better*. A basic laboratory study involving selected experiments which illustrate biochemical principles including separation, identification and chemical properties of carbohydrates, lipids, proteins and enzymes. Equivalent to BIOL 447. ***Course Fee***

CHEM 450. PHYSICAL CHEMISTRY I. (3) *Prerequisites: A grade of "C" or better in CHEM 314 or 340; CHEM 330; MATH 136, PHYS 231 or 255. Corequisite: CHEM 451.* A detailed study of the fundamental principles and models describing the physical and chemical properties of matter at both the microscopic and macroscopic levels. Selected topics may include thermodynamics and equilibria, the kinetic theory of gases, transport properties, chemical kinetics, introductory quantum mechanics, spectroscopy, statistical thermodynamics, and interdisciplinary applications.

CHEM 451. PHYSICAL CHEMISTRY I LABORATORY. (2) *Corequisite: CHEM 450.* A laboratory to accompany CHEM 450 that emphasizes the treatment and analysis of scientific data as well as formal scientific communication. Experiments may include measurements of thermochemical properties, phase and chemical equilibria, kinetic rates, spectroscopic properties, and supporting computational chemistry. Pre-lab lecture and laboratory meets 4.5 hours per week. ***Course Fee***

CHEM 452. PHYSICAL CHEMISTRY II. (3) *Prerequisites: A grade of "C" or better in CHEM 320; CHEM 450; MATH 137; PHYS 365 or 332. Corequisite: CHEM 453.* A continuation of CHEM 450. Selected topics include thermodynamics and equilibria, the kinetic theory of gases, transport properties, chemical kinetics, introductory quantum mechanics, spectroscopy, statistical thermodynamics, and interdisciplinary applications.

CHEM 453. PHYSICAL CHEMISTRY II LABORATORY. (2) *Corequisite: CHEM 452.* A laboratory to accompany CHEM 452. Experiments may include measurements of thermochemical properties, phase and chemical equilibria, kinetic rates, spectroscopic properties, and supporting computational chemistry. Pre-lab lecture and laboratory meets 4.5 hours per week. ***Course Fee***

CHEM 462. BIOINORGANIC CHEMISTRY. (3) *Prerequisite: CHEM 314 or 340 with a grade of "C" or better.* This course is a study of the coordinating properties and reactivity of metal ions in living organisms. Metal ion toxicity and detoxification systems and functions of various metalloenzymes will be discussed.

CHEM 467. BIOCHEMISTRY II. (3) *Prerequisite: BIOL / CHEM 446.* A study of the reactions of living systems and an introduction to the mechanisms and energetics of metabolism. Equivalent to BIOL 467.

CHEM 470. CHEMISTRY / MIDDLE SCHOOL. (3) *Prerequisites: CHEM 105 or 120.* A study of the atomic and electronic structure of atoms, bonding theories, types of chemical reactions, intermolecular forces and the structure of solids as related to the middle school science curriculum. The course may not be used to fulfill the requirements for a chemistry major or minor.

CHEM 475. SELECTED TOPICS IN CHEMISTRY. (1-3) *Prerequisite: Consent of instructor.* Special topics are presented to acquaint advanced students with significant problems and developments of current interest in the fields of analytical, biological, inorganic, organic, physical, polymer and coal chemistry. The course may be repeated for credit provided topics differ.

CHEM 476. ADVANCED INVESTIGATIONS IN CHEMISTRY LABORATORY. (2) *Prerequisite: Permission of the instructor.* A course for advanced students involving assigned laboratory work in the field of inorganic chemistry. Typical procedures and experiments are those involving the synthesis, characterization, and identification of various chemical compounds, using a variety of handling techniques, and the application of various physical methods. ***Course Fee***

CHEM 489. COOPERATIVE EDUCATION IN CHEMISTRY III. (3-6) *Prerequisite: Senior standing.* Practical out-of-the classroom experience in a supervised work situation with a cooperating business, industry, or governmental agency, emphasizing laboratory skills in chemistry.

CHEM 490. MATERIALS CHEMISTRY. (3) *Prerequisites: CHEM 330 and CHEM 412 or 452 with a grade of "C" or better.* A study of the three major classes of materials: metals, polymers, and ceramics. Topics discussed will include chemical composition, bonding, common chemical and physical properties, microstructures, and how processing and uses are affected by chemical and physical properties.

CHEM 491. MATERIALS CHEMISTRY LABORATORY. (3) *Prerequisites: CHEM 330 and either CHEM 412 or 452, or permission of the department.* A laboratory course in materials that includes experiments on liquid flow, solid deformation, thermal properties, electrical conductivity of materials, microscopy, diffraction techniques, processing and testing of shaped articles.

CHHS– College of Health and Human Services

CHHS 175. UNIVERSITY EXPERIENCE – HEALTH AND HUMAN SERVICES. (3) *Prerequisite: For beginning college freshman or transfer students with fewer than 24 hours of degree credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, campus resources, and personal development. Special emphasis on careers and degree programs related to the fields of health and human services. Field trips may be required; students responsible for own transportation.

CHIN– Chinese
Department of Modern Languages

CHIN 100. CHINESE LANGUAGE AND CULTURE ON-SITE. (1-3) *Prerequisite: Permission of instructor. An introduction to Chinese and Chinese-speaking culture in conjunction with study abroad for students with little or no previous language study. May be repeated for a total of three credits.*

CHIN 101. ELEMENTARY CHINESE I. (3) Conversational Mandarin with basic grammar and basic functional vocabulary of the Chinese language. Includes aspects of contemporary Chinese culture.

CHIN 102. ELEMENTARY CHINESE II. (3) *Prerequisite: CHIN 101 or equivalent*. Continuation of development of basic grammar and functional language skills of Mandarin. Includes aspects of contemporary Chinese culture. ***Course Fee | Fulfills World Language with a grade of C or better.***

CHIN 105. INTRODUCTION TO CHINESE CULTURES. (3) Survey of contemporary culture of Chinese-speaking peoples, with emphasis on values, behavioral characteristics, social and political structures, and their achievements. Taught in English; only taught abroad.

CHIN 108. CHINESE CALLIGRAPHY. (3) This skill-oriented course involves hands-on activities to familiarize students with the key techniques for traditional Chinese calligraphy. Taught in English.

CHIN 201. INTERMEDIATE CHINESE I. (3) *Prerequisite: CHIN 102 or equivalent.* Expansion of communication skills in increasingly complex and varied situations. Emphasis on conversational speaking, presentational writing and speaking, and understanding culturally specific texts and media. ***Fulfills World Language with a grade of C or better.***

CHIN 202. INTERMEDIATE CHINESE II. (3) *Prerequisite: CHIN 201 or equivalent.* Continued expansion of interpersonal communication skills at the intermediate level. Emphasis on increasing comprehension, the building of vocabulary, and on presentational modes of speaking and writing. ***Fulfills World Language with a grade of C or better.***

CHIN 209. CHINESE LEARNING LAB & EXPLORATORIUM I. (1-3) *Prerequisite: Completion of CHIN 102 or equivalent, and permission of instructor.* Guided project-based individualized Chinese language and cultural studies at the novice and intermediate level. Number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of three hours of credit.

CHIN 301. ADVANCED INTERMEDIATE CHINESE I. (3) *Prerequisite: CHIN 202 or equivalent.* Continued expansion of interpersonal communication skills at the advanced intermediate level. Focus on control of more complex linguistic forms to achieve increasing comprehension and presentation of Chinese language and culture on familiar topics. ***Fulfills World Language with a grade of C or better.***

CHIN 302. ADVANCED INTERMEDIATE CHINESE II. (3) *Prerequisite: CHIN 301 or equivalent.* Continued expansion of interpersonal communication skills at the advanced intermediate level. Focus on control of more complex linguistic forms to achieve increasing comprehension and presentation of Chinese language and culture on both familiar and unfamiliar topics. ***Fulfills World Language with a grade of C or better.***

CHIN 306. EXPERIENCING CHINESE ABROAD. (1-3) *Prerequisites: Completion of CHIN 102 or equivalent and permission of instructor.* Supervised language and cultural studies accomplished during a study aboard program. Students will receive transferable credit for language study done during the study abroad program with the approval of instructor. May be repeated once for a maximum of six credit hours. ***Fulfills World Language with a grade of C or better.***

CHIN 318. BUSINESS CHINESE. (3) *Prerequisite: CHIN 202 or equivalent.* This intermediate-level course aims to enhance students' daily communicative skills and cultural understanding in a business context in contemporary Chinese-speaking regions. ***Fulfills World Language with a grade of C or better.***

CHIN 320. CHINESE CONVERSATION AND COMPOSITION. (3) *Prerequisite: CHIN 202 or equivalent.* This intermediate course advances students' interpersonal and presentational communication skills with intensive practice in all language skills and a focus on speaking and writing. ***Fulfills World Language with a grade of C or better.***

CHIN 333. CHINESE CULTURE AND CIVILIZATION. (3) *Prerequisite: Completion of CHIN 202 or equivalent.* This intermediate course introduces students to Chinese history, society, culture, and contemporary issues. It is taught in the target language. ***Fulfills World Language with a grade of C or better.***

CHIN 370. INTRODUCTION TO MODERN CHINESE LITERATURE AND FILM. (3) *Prerequisite: Completion of one CHIN 300-level curse.* Students will learn about modern China and Chinese people through contemporary literature and film in this course. ***Fulfills World Language with a grade of C or better.***

CHIN 389. INTERNSHIP IN CHINESE. (1-3) *Prerequisite: Permission of the program instructor.* Supervised work using Chinese in a professional setting. Only open to Chinese major or minors. Can be repeated for up to six credit hours. ***Fulfills World Language with a grade of C or better.***

CHIN 401. ADVANCED CHINESE I. (3) *Prerequisite: Completion of CHIN 302 or equivalent.* This interactive course continues to expand students' language skills at the advanced level and enables students to communicate with native Chinese speakers on practical and factual matters. ***Fulfills World Language with a grade of C or better.***

CHIN 409. CHINESE LEARNING LAB & EXPLORATORIUM I. (1-3) *Prerequisite: Completion of CHIN 302 or equivalent, and permission of instructor.* Guided project-based individualized Chinese language and cultural studies at the advanced level. Number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of three hours of credit.

CHIN 402. ADVANCED CHINESE II. (3) *Prerequisite: CHIN 401 or equivalent.* This interactive course builds on language skills acquired in previous study of Chinese and trains learners to handle routine communication effortlessly among native speakers of Chinese. ***Fulfills World Language with a grade of C or better.***

CHIN 418. BUSINESS CHINESE II. (3) *Prerequisite: Completion of CHIN 318 or equivalent.* This advanced level course fosters continued development of students' language skills and cultural understanding about the business environment in contemporary Chinese-speaking regions. ***Fulfills World Language with a grade of C or better.***

CHIN 420. ADVANCED CHINESE STYLISTICS. (3) *Prerequisite: Completion of CHIN 320 or equivalent.* This advanced course provides intensive practice in formal Chinese language. It aims to train students to be effective in narration, description, persuasion, exposition, and lyrical expression. ***Fulfills World Language with a grade of C or better.***

CHIN 450. READING CHINESE CLASSICS. (3) *Completion of two CHIN 300-level courses.* Students will read excerpts of Chinese Classics to develop in-depth understanding of Chinese values and traditions in cultural context. ***Fulfills World Language with a grade of C or better.***

CHNF – CHINESE FLAGSHIP
DEPARTMENT OF MODERN LANGUAGES

CHNF 101. INTENSIVE ELEMENTARY CHINESE I. (4) *Prerequisite: Enrollment in the Chinese Flagship Program, or instructor permission.* Introductory intensive instruction to Chinese reading, writing and conversational skills through exposure to daily life topics; designed for students with no previous study of Chinese. ***Fulfills World Language with a grade of C or better.***

CHNF 102. INTENSIVE ELEMENTARY CHINESE II. (4) *Prerequisite: CHNF 101.* Continued introductory intensive instruction in Chinese; designed to further build students' communication skills to an intermediate level. ***Fulfills World Language with a grade of C or better.***

CHNF 201. INTENSIVE INTERMEDIATE CHINESE I. (4) *Prerequisite: CHNF 102.* Intensive instruction in Chinese, designed to develop students' language skills and all-round communicative competence to a novice-high to intermediate-low level.

CHNF 202. INTENSIVE INTERMEDIATE CHINESE II. (4) *Prerequisite: CHNF 201.* Intensive instruction in Chinese, designed to further develop students' language skills and all-round communicative competence to an intermediate-low to intermediate-mid level.

CHNF 301. INTENSIVE ADVANCED CHINESE I. (4) *Prerequisite: CHNF 202.* Continued intensive instruction in Chinese, designed to further develop students' language skills and all-round communicative competence to intermediate-mid to intermediate-high level.

CHNF 302. INTENSIVE ADVANCED CHINESE II. (4) *Prerequisite: CHNF 202.* Continued intensive instruction in Chinese designed to further develop students' language skills and all-round communicative competence to intermediate-high to advanced-low level.

CHNF 420. MEDIA CHINESE. (3) *Prerequisite: Admission to the CHNF program and permission of instructor*. An advanced-level Chinese Flagship course designed to enhance students' immersion learning of Mandarin Chinese by introducing them to advanced level grammar, vocabulary, and formal writing seen in Chinese language media such as newspapers, television, and the internet.

CHNF 430. CHINESE CULTURE. (3) *Prerequisite: CHNF 420.* An advanced Chinese Flagship course designed to enhance students' immersion into Mandarin Chinese by introducing them to the language's cultural background. Taught entirely in Chinese, students learn both Chinese language and culture through such topics as history, traditional philosophy, political thoughts, religion, arts and literature, medicine and science.

CHNF 440. CHINESE TRADITION. (3) *Prerequisite: Admission to the CHNF program and permission of instructor.* An advanced Chinese Flagship course designed to further deepen students' immersion learning of Mandarin Chinese vocabulary, grammar, and formal expression through introduction to China's cultural and historical traditions. Taught entirely in Chinese, the course interweaves the learning of both Chinese language and Chinese traditions.

CHNF 450. CLASSICAL CHINESE. (3) *Prerequisite: CHNF 420.* This is an advanced Chinese Flagship course designed to enhance students' knowledge of Mandarin Chinese by introducing classical Chinese vocabulary and grammar by reading pre-modern literary, historical, and philosophical texts.

CIS – COMPUTER INFORMATION SYSTEMS
DEPARTMENT OF INFORMATION SYSTEMS

CIS 141. BASIC COMPUTER LITERACY. (3) An introduction to the breadth of information technology and the role of computer based devices for everyday problem solving in life, work and research. Practical experience with current as well as emerging technologies is provided. Students who have earned credit in *CSCI 145C* may not enroll in CIS 141. ***Course Fee***

CIS 205. TECHNOLOGY IN SOCIETY AND BUSINESS. (3). *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* Examination of the impact of digital information technology on domestic and international businesses and societies, along with ethical and social impacts on professional and personal decision-making. ***Course Fee | Colonnade K-LG***

CIS 226. INTRODUCTION TO VISUAL PROGRAMMING. (3) A study in the algorithmic approach of the analysis of problems and their solutions. A visual programming language will be introduced and used in solving assigned problems. Laboratory work will be required outside of class meetings. ***Course Fee***

CIS 243. PRINCIPLES OF MIS. (3) *Prerequisite: CIS 141 or CSCI 145C.* The basis of information systems and how they fit into a decision-making environment. An introduction to systems analysis in relation to managing information systems. Strategic uses of information technology throughout the business enterprise. ***Course Fee***

CIS 248. SYSTEMS INTEGRATION. (3) Continuing coverage of programming with emphasis on integrating and designing useful graphical user interfaces to enter, edit and retrieve information from existing databases. Secondary emphasis will be on generating complicated detailed reports. ***Course Fee***

CIS 320. PERSONAL INFORMATION TECHNOLOGIES. (3) *Prerequisite: CIS 141 or CSCI 145C.* The management and deployment of personal productivity technologies, including management of facilities, workstations, and support services. Particular emphasis is placed on using technology tools to increase productivity and quality. ***Course Fee***

CIS 321. EMERGING INFORMATION TECHNOLOGIES. (3) *Prerequisite: CIS 141 or CSCI 145C.* Overview of the most recent tools and techniques in information technology, and their utilization in the business environment. ***Course Fee***

CIS 369. COOPERATIVE EDUCATION IN INFORMATION SYSTEMS. (1-3) *Prerequisites: Application for or enrollment in Cooperative Education Plan; approval of department and Co-op Faculty Advisor; development of Learning Plan; CIS 141 or CSCI 145C, CIS 226 and CIS 243 with a grade of "C" or better. Note: A minimum 2.5 GPA is required for enrollment in this course.* Practical out-of-the-classroom experience in a supervised work situation with a cooperating business, industry, social or governmental agency applying information systems theory. (Grading: Pass / Fail) ***Course Fee***

CIS 440. SELECTED TOPICS-INFORMATION SYSTEMS. (1.5 or 3) *Prerequisites: Admission to the CIS program and permission of instructor.* Study of an advanced topic not normally covered in other Computer Information Systems courses. ***Course Fee*** (Some topics may require additional prerequisites)

CIS 449. INDEPENDENT STUDY IN COMPUTER INFORMATION SYSTEMS. (3) *Prerequisite: CIS 243.* Directed study and research in one area of computer information systems. ***Course Fee***

CIT – COMPUTER INFORMATION TECHNOLOGY
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

CIT 300. ON-LINE TRAINING FOUNDATIONS. (3) *Prerequisite: Admission to the CIT program.* Introduces students to educational technology and the distance education process necessary for the CIT program.

CIT 302. WEB DEVELOPMENT. (3) *Prerequisite: CIT 300 or permission of the instructor.* Introductory course in web design and development. Provides students with strategies and skills to plan and develop commercial web sites.

CIT 310. SYSTEMS ARCHITECTURE I. (3) *Prerequisite: CIT 300.* Introduction to applied technology and computer architecture. Emphasis will be on hardware specification and selection, troubleshooting, maintenance and optimizing system performance.

CIT 312. SYSTEMS ARCHITECTURE II. (3) *Prerequisite: CIT 310.* Introduction to software elements of the computer, including operating systems, programming tools and system utilities. Course will emphasize these elements in an applied, organizational context.

CIT 330. SYSTEMS DEVELOPMENT I. (3) *Prerequisite: CIT 300.* Emphasis on developing structured system applications and program logic. Assumes no prior experience with system development and does not focus on any particular language.

CIT 332. SYSTEMS DEVELOPMENT II. (3) *Prerequisite: CIT 330.* Study of system-development tools commonly used in businesses and organizations. Topics include interfacing systems with databases and web applications.

CIT 350. DATABASE ADMINISTRATION I. (3) *Prerequisite: CIT 300.* Introduction to database applications and related fundamentals including database models, normalization and principles of effective database design.

CIT 352. DATABASE ADMINISTRATION II. (3) *Prerequisite: CIT 350.* A continuation of CIT 350 with emphasis on developing distributed database solutions, client–server models for business use and advanced SQL.

CIT 370. TELECOMMUNICATIONS I. (3) *Prerequisite: CIT 300.* Overview of modern networking systems, including networking fundamentals, local-area networks, routing addressing, wide-area networks, remote access and security. Emphasis on applied technology used in organizational settings.

CIT 372. TELECOMMUNICATIONS II. (3) *Prerequisite: CIT 370.* Introduction to the TCP / IP protocol, its use in an organizational environment and the different sub-protocols that underlie popular business applications.

CIT 412. ADVANCED SYSTEMS ARCHITECTURE I. (3) *Prerequisite: CIT 312.* A continuation of CIT 312 with a focus on enterprise architecture and how to design computer system solutions using industry-standard operating systems and tools.

CIT 414. ADVANCED SYSTEMS ARCHITECTURE II. (3) *Prerequisite: CIT 412.* Examines both the managerial aspects of system design – build-vs.-buy, labor and related strategic decisions – and administration of corporate networks and related systems.

CIT 416. SYSTEMS ADMINISTRATION I. (3) *Prerequisite CIT 312.* Strategies and techniques to prepare students for enterprise server design, implementation and maintenance, including advanced networking hardware and software tools.

CIT 418. SYSTEMS ADMINISTRATION II. (3) *Prerequisite: CIT 416.* A continuation of CIT 416 that provides more in-depth analysis of system architecture and administration, developing strategic advantage through appropriate investments in technology and contemporary issues in enterprise computing and management.

CIT 432. ADVANCED SYSTEMS DEVELOPMENT I. (3) *Prerequisite: CIT 332.* Focuses on advanced system-development approaches. Students will utilize modern development tools to build business systems and applications.

CIT 434. ADVANCED SYSTEMS DEVELOPMENT II. (3) *Prerequisite: CIT 432.* Focuses on the managerial aspects of systems development. Analyzes the various stakeholders of enterprise software architectures, including software architects, designers, analysts, developers, members of IT strategy departments and project managers.

CIT 436. WEB SYSTEMS DEVELOPMENT I. (3) *Prerequisites: CIT 302 and CIT 332.* Emerging trends in web-based applications and how they are developed. Emphasis on building business-oriented solutions using web technology and the Internet.

CIT 438. WEB SYSTEMS DEVELOPMENT II. (3) *Prerequisite: CIT 436.* A continuation of CIT 436 providing additional coverage of web service and application topics. Also emphasizes integration with existing database systems and legacy applications.

CIT 452. ADVANCED DATABASE ADMINISTRATION I. (3) *Prerequisite: CIT 352.* Focuses on administering the enterprise database system. Emphasizes implementation and administration issues associated with large-scale database systems.

CIT 454. ADVANCED DATABASE ADMINISTRATION II. (3) *Prerequisite: CIT 452.* A continuation of CIT 452. Related managerial issues are emphasized in this course. Topics include data warehousing, data mining and distributed database systems administration.

CIT 456. SYSTEMS ANALYSIS & DESIGN I. (3) *Prerequisite: CIT 352.* Modern analysis and design techniques with an emphasis on developing organizational systems.

CIT 458. SYSTEMS ANALYSIS & DESIGN II. (3) *Prerequisite: CIT 456.* Analysis and design of object-oriented systems.

CIT 472. ADVANCED TELECOMMUNICATIONS I. (3) *Prerequisite: CIT 372.* Strategies for planning, designing and implementing wireless networks including Wi-Fi ad hoc networks, hybrid wireless, etc. as part of an overall organizational network strategy.

CIT 474. ADVANCED TELECOMMUNICATIONS II. (3) *Prerequisite: CIT 472.* Emerging networking technologies that create value and strategic advantage for business users. Emphasis on integrating networking technologies with existing systems and infrastructure.

CIT 476. NETWORK ADMINISTRATION I. (3) *Prerequisite: CIT 372.* Network administration and management with an emphasis on technologies and tools for supporting large-scale business networks.

CIT 478. NETWORK ADMINISTRATION II. (3) *Prerequisite: CIT 476.* The latest Microsoft technologies and tools for supporting network administration in organizational environments.

CIT 482. SYSTEMS SECURITY I. (3) *Prerequisites: CIT 300 and permission of instructor.* An examination of computer and corporate security in business settings, emphasizing security implementation within corporations using commercial tools and technologies.

CIT 484. SYSTEMS SECURITY II. (3) *Prerequisite: CIT 482.* A continuation of CIT 482 that provides additional study and experience with managerial / operational issues affecting the security of enterprise computers and networks; examines available tools and opportunities in the field.

CIT 486. KNOWLEDGE MANAGEMENT. (3) *Prerequisites: CIT 300 and permission of instructor.* Examines computer-based knowledge – how organizations can capture, store, share and effectively manage their intellectual resources.

CIT 492. TECHNOLOGY MANAGEMENT I. (3) *Prerequisites: CIT 300 and permission of instructor.* Examines the management of technological projects including planning, implementation, control, quality, time and budget.

CIT 494. TECHNOLOGY MANAGEMENT II. (3) *Prerequisite: CIT 492.* A practical examination of information technology with emphasis on the tactical and operational role of IT in an organization.

CIT 496. TECHNOLOGY SUPPORT ADMINISTRATION. (3) *Prerequisites: CIT 300 and permission of instructor.* Explores the challenge of supporting technology resources within an organizational setting and presents current strategies and tools employed by managers to support users and technologies across the firm.

CM – CONSTRUCTION MANAGEMENT
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

CM 227. APPLIED STATICS. (3) *Prerequisites: MATH 122 and PHYS 201.* A branch of mechanics dealing with forces and the effects of forces acting on bodies at rest. Topics include: vector operations, applied loads, forces, moments of a force, couples, resultants, free-body diagrams, equilibrium, friction, centroids, centers of gravity and moments of inertia. Applications involve beams, frames, trusses, cables, pulleys, sheaves and machines. (Does not count toward any engineering major) ***Course Fee***

CM 250. CONTRACT DOCUMENTS. (3) *Prerequisite: MATH 116 with a grade of a "C" or better, or MATH 117 or better.* Introduction to construction documents including drawings, specifications, contracts, requests for information, change orders, bid packages, addenda, and transmittals. In addition, techniques for reading engineering and shop drawings will be introduced. ***Course Fee***

CM 337. APPLIED STRENGTH OF MATERIALS. (3) *Prerequisite: AMS 282 or permission of instructor.* Basic design applications using primary building materials and concepts of stress, strain, and elastic deformation, including axial, torsional, shearing, flexural, and combined stresses, elongation, and deflection, shear and moment diagrams, column buckling, and material testing. ***Course Fee***

CM 339. APPLIED STRENGTH OF MATERIALS LAB. (1) *Corequisite: CM 337.* Testing of metals and non-metals in support of material covered in CM 337. Experiments: Rockwell Hardness, impact, tension, torsion, flexure, deflection, compression, column buckling, bolt shear, bearing on connections.

CM 346. APPLIED SOIL MECHANICS AND FOUNDATIONS. (3) *Prerequisite: CM 337 or permission of instructor.* An applied course in soil mechanics and foundations, including soil composition and classification, soil compaction and site work, lateral earth pressures and retaining walls, and an introduction to foundation design and construction including both deep and shallow foundations. Demonstrations of commonly used laboratory tests are also included. ***Course Fee***

CM 363. CONSTRUCTION ESTIMATING AND BIDDING. (3) *Prerequisite: CM 250 or CE 303 or permission of instructor.* Methods and procedures for estimating and bidding construction projects, including extracting quality take-off's from drawings, classifying work in accordance with specifications, compiling and pricing estimates, preparing bids, and computer applications. ***Course Fee***

CM 400. CONSTRUCTION ADMINISTRATION. (3) *Prerequisite: CE 303.* Basic principles of construction project administration including finances, legal requirements including permits, cost control, safety and quality management, office organization, site planning, document control, project tracking and risk management. ***Course Fee***

CM 426. CONSTRUCTION LAW. (3) *Prerequisite: CM 250 or CE 303 or permission of instructor.* Introduction to law and judicial procedures as they relate to the practicing construction manager. Contracts, bonds, professional liability, professional ethics, bidding procedures, liens, product liability. Emphasis on development of critical thinking process, abstract problem analysis, and evaluation. ***Course Fee***

CM 447. APPLIED STRUCTURAL DESIGN. (3) *Prerequisite: CM 337.* Basic design of permanent and temporary structural components using the primary building materials.

CM 462. CONSTRUCTION SCHEDULING. (3) *Prerequisite: CM 250 or CE 303 or permission of instructor.* Various components of construction project scheduling including work breakdown structures, activity duration estimates, scheduling logic, precedence networking, Gantt charts, CPM and PERT techniques, resource scheduling, schedule updating and reduction and computer applications. ***Course Fee***

CM 463. CONSTRUCTION ESTIMATING AND BIDDING II. (3) *Prerequisite: CM 363.* Advanced estimating and bidding procedures using commercially available software and spreadsheets. Includes quantity take-offs and estimating techniques of various construction trades beyond those covered in CM 363. ***Course Fee***

CNS – COUNSELOR EDUCATION
DEPARTMENT OF COUNSELING AND STUDENT AFFAIRS

CNS 110. HUMAN RELATIONS. (3) Theory, concepts, and skills necessary to increase self-awareness and improve relationships in social and academic settings. Processes of managing the problems of everyday life including conflict, and social demands. ***Colonnade E-SB | SB***

CNS 269. SPECIAL TOPICS IN COUNSELING / GUIDANCE. (1-3) Selected topics of significance in counseling and helping relationships. Classroom activities and assignments are variable with credit.

CNS 432. HELPING SKILLS. (3) *Prerequisite: Junior standing.* Overview of helping in counseling and human relations, investigates the person and role of the helper, development of helping skills appropriate for lay helpers, and approaches to crisis intervention.

COMM – COMMUNICATION
DEPARTMENT OF COMMUNICATION (COMM)

COMM 142. FORENSIC PRACTICUM I. (1) *Prerequisite: Active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 144. FORENSIC PRACTICUM II. (1) *Prerequisites: COMM 142 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 145. FUNDAMENTALS OF PUBLIC SPEAKING AND COMMUNICATION. (3) Focuses on the preparation and delivery of public speeches (informative and persuasive), with skills development in listening, teamwork, and interpersonal communication contexts. ***Course Fee | F-OC | OC***

COMM 200. COMMUNICATION FOUNDATIONS. (3) *Prerequisite: COMM 145 or its OC Equivalent, and ENG 100 or its W1 equivalent, or instructor permission.* Introduces foundational communication contexts, theories, and processes. ***Colonnade F-W2 | WC***

COMM 240. EFFECTIVE LISTENING. (3) Studies contextual, psychological and logical bases of listening and training in listening for comprehension, analysis, synthesis, and evaluation. Focuses on critical listening skills in face-to-face, mediated, interactive and public settings.

COMM 242. FORENSIC PRACTICUM III. (1) *Prerequisites: COMM 144 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 244. FORENSIC PRACTICUM IV. (1) *Prerequisites: COMM 242 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 245. ARGUMENTATION AND DEBATE. (3) Introduces argumentation and debate, emphasizing construction, analysis, and refutation of arguments. Classroom experience is provided in academic debating.

COMM 247. VOICE AND DICTION. (3) Develops pleasing voice quality, correct articulation, distinct enunciation and diction free from substandard pronunciation.

COMM 260. ORGANIZATIONAL INTERVIEWING. (3) *Prerequisite: Sophomore standing, or permission of instructor.*. Offers fundamental principles and practices of interviewing from both interviewer and interviewee perspectives. Requires application of course content to interview process.

COMM 300. INTRODUCTION TO COMMUNICATION RESEARCH METHODS. (3) *Prerequisites: COMM 200, and MATH 109 or higher or instructor permission. (COMM 200 may be taken concurrently.* Introduces rhetorical, qualitative, and quantitative methods of inquiry used in communication research.

COMM 330. LEADERSHIP COMMUNICATION. (3) *Prerequisite: Sophomore standing, permission of instructor.* Studies the role that communication plays in various leadership contexts and situations.

COMM 342. FORENSIC PRACTICUM V. (1) *Prerequisite: COMM 244 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 344. FORENSIC PRACTICUM VI. (1) *Prerequisites: COMM 342 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 345. ADVANCED PUBLIC SPEAKING. (3) *Prerequisite: COMM 145 with a grade of "C" or better, or permission of instructor.* Advances the preparation and delivery of public speeches including speeches to explain a concept, technical speeches, speeches to convince, speeches to actuate, speeches to entertain, and speeches for special occasions.

COMM 346. PERSUASION. (3) *Prerequisite: COMM 200 or ENG 300, or permission of instructor. (COMM 200 or ENG 300 may be taken concurrently).* Introduces basic theories of persuasion and attitude change. The course emphasizes communication theory and rhetorical perspectives of persuasion.

COMM 348. INTERPERSONAL COMMUNICATION. (3) *Prerequisite: COMM 200 or ENG 300, or permission of instructor. (COMM 200 or ENG 300 may be taken concurrently).*Introduces students to the fundamentals of interpersonal communication, including interpersonal skills, theory, and research.

COMM 349. SMALL GROUP COMMUNICATION. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Studies group dynamics, interaction and communication in group situations. **Colonnade K-SY**

COMM 362. ORGANIZATIONAL COMMUNICATION. (3) *Prerequisite: COMM 200 or ENG 300, or permission of instructor. (COMM 200 or ENG 300 may be taken concurrently)*. Introduces theoretical approaches to human communication in organizations.

COMM 364. CRISIS COMMUNICATION. (3) *Prerequisite: COMM 200 with a grade of "C" or better or instructor permission.* Examines communicative pre-crisis preparation and post-crisis response strategies.

COMM 365. INTERCULTURAL COMMUNICATION. (3) *Prerequisite: 21 hours of Foundations and Explorations courses, or junior standing.*. Introduces concepts and principles from the communication discipline for examining, analyzing, and evaluating challenges and opportunities of engaging cultural differences in peoples' face-to-face and mediated communication interactions in today's increasingly interdependent and interconnected world. **Colonnade K-SC**

COMM 374. GENDER COMMUNICATION. (3) *Prerequisite: Sophomore standing, or permission of instructor.* Examines communication behaviors as affected by gender, including assessment of communication differences reflected in organizational, interpersonal, and mass communication modes.

COMM 388. SEMINAR IN POLITICAL COMMUNICATION. (3) *Prerequisites: Sophomore standing, or permission of instructor.* Focuses on the roles, processes, and effects of communication within the context of politics. This course is required of all Political Communication Certificate students.

COMM 400. SPECIAL TOPICS IN COMMUNICATION. (3) *Prerequisite: Sophomore standing and COMM 200 or ENG 300 with a grade of "C" or better or instructor permission.* Offers students courses on various communication topics not covered specifically within the curriculum. Repeatable up to 6 hours.

COMM 415. STUDY ABROAD IN COMMUNICATION. (1-3) Study of communication interactions, processes, and culture in international and cross-cultural locations. Repeatable up to 6 hours.

COMM 440. HEALTH COMMUNICATION. (3) *Prerequisite: Prerequisite: COMM 200 or ENG 300 with a grade of "C" or better, or permission of instructor.*. Examines and analyzes the critical role communication plays in health campaigns, health care delivery, health care contexts, and in health behavior change.

COMM 442. FORENSIC PRACTICUM VII. (1) *Prerequisites: COMM 344 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 444. FORENSIC PRACTICUM VIII. (1) *Prerequisites: COMM 442 and active participation on the forensic team.* Individualized coaching and intercollegiate competitive experience in debate and individual events.

COMM 448. ADVANCED INTERPERSONAL COMMUNICATION. (3)
Prerequisites: COMM 348 with a grade of "C" or better, or permission of instructor. Designed as a survey of research and theory in interpersonal communication.

COMM 450. FAMILY COMMUNICATION. (3) *Prerequisites: COMM 348 with a grade of "C" or better, or permission of instructor*. Designed as a survey of research and theory in family communication.

COMM 451. COMMUNICATION IN THE DIGITAL AGE. (3) *Prerequisite: Sophomore standing and COMM 200 or ENG 300 with a grade of "C" or better, or permission of instructor.* Examines various types of computer-mediated communication available in contemporary organizations.

COMM 462. ADVANCED ORGANIZATIONAL COMMUNICATION. (3)
Prerequisites: COMM 362 with a grade of "C" or better, or permission of instructor. Integrates and applies studies of organizational communication theory and research.

COMM 463. ADVANCED INTERCULTURAL COMMUNICATION. (3) *Prerequisite: Any Colonnade K-SC or K-LG course, all with a grade of "C" or better, or instructor permission.* Advances understanding and application of intercultural communication theory and research for examining, analyzing, and evaluating challenges of engaging cultural differences in today's interconnected world.

COMM 470. ORGANIZATIONAL RELATIONSHIPS. (3) *Prerequisites: COMM 200 with a grade of "C" or better and COMM 348 or COMM 362 with a grade of "C" or better or permission of instructor.* Examines the positive and negative elements of workplace relationships and their importance to organizational and personal well-being.

COMM 471. COMMUNICATION IN MULTINATIONAL ORGANIZATIONS. (3)
Prerequisite: COMM 362 with a grade of "C" or better or instructor permission. Overview of the significant roles of communication in multinational organizations (MNOs). Analysis and application of theories and principles for effective communication among a diverse group of employees in various MNO contexts.

COMM 489. INTERNSHIP IN COMMUNICATION. (3) *Prerequisites: COMM 200 and 362 with a grade of "C" or better, and junior standing. For departmental majors only*. Structures appropriate supervised work with a cooperating organization. Open only to Communication Studies and Corporate and Organizational Communication majors. Course will be repeatable once for credit (only 3 hours will count for credit toward major).

COMM 494. CAPSTONE IN COMMUNICATION. (1) *Prerequisites: COMM 200 and Senior standing, for departmental majors only. Prerequisite / Corequisite: COMM 300 or instructor permission* Enables students to demonstrate knowledge of the discipline by applying Communication theories to analyze relevant/professional work experience, and illustrate career preparation/readiness.

COMM 495. INDEPENDENT STUDY IN COMMUNICATION. (1-6) *Prerequisite: COMM 200 with a grade of "C" or better, and permission of instructor.* Develops directed research in communication. Students are to submit written petitions for faculty approval of the study during the previous semester. (With permission of instructor.)

CRIM - CRIMINOLOGY
DEPARTMENT OF SOCIOLOGY

CRIM 101. INTRODUCTION TO CRIMINAL JUSTICE. (3) Survey of criminal justice systems, including police, courts, and corrections. ***Colonnade E-SB | SB***

CRIM 222. INTRODUCTION TO CRIME MAPPING. (3) *Prerequisite: CIM 101.* Introduces theoretical and methodological content related to the study of spatial crime concentration in urban environment.

CRIM 232. INTRODUCTION TO LAW ENFORCEMENT. (3) An introduction to policing — including the history of law enforcement, the police and the criminal justice system, principles of law enforcement, and professional issues in law enforcement.

CRIM 233. ALTERNATIVES TO CONFINEMENT. (3) An examination of community treatment options in the correctional process with emphasis on contemporary probation and parole practices for adult offenders. Diversion, halfway houses, drug and alcohol treatment, restitution, house arrest, community service and new community-based programs for women will be discussed.

CRIM 234. CRIME AND POPULAR CULTURE. (3) Course examines depictions of crime and justice in popular culture and its influence on public perceptions of crime and the criminal justice system.

CRIM 330. CRIMINOLOGY. (3) Survey of crime in the United States, focusing on theoretical explanations of crime causation, crime classification, and measurement.

CRIM 332. JUVENILE DELINQUENCY. (3) *Prerequisite: SOCL 100 or CRIM 101 or consent of instructor.* An examination of the socio-legal aspects of delinquency, including a critical analysis of trends and contemporary treatment modes. Field trips required.

CRIM 346. SPECIAL TOPICS IN CRIMINOLOGY. (3) *Prerequisite: CRIM 101 or permission of instructor*. Survey of topics, issues, and developments in the discipline of criminology and criminal justice. Course may be repeated with a different topic.

CRIM 361. RACE, CLASS, AND CRIME. (3) *Prerequisite: SOCL 100 or CRIM 101 or consent of instructor.* Course examines how race, ethnicity, and social class pose differential risks for offending, victimization, and disparate processing by the criminal justice system.

CRIM 380. PENOLOGY. (3) *Prerequisite: Undergraduate course in criminology or juvenile delinquency.* Survey of theories and forms of punishment, community-based corrections and prisons. Field trips to prisons required.

CRIM 430. COMPARATIVE SYSTEMS OF JUVENILE JUSTICE. (3) The comparative study of juvenile justice systems, focusing on the varying local, state, regional, or societal structures which influence these systems. ***Colonnade K-SY***

CRIM 432. SOCIOLOGY OF CRIMINAL LAW. (3) *Prerequisite: 6 hours of CRIM or consent of instructor.* An examination of the sociological research and theory focusing on social structural factors affecting the creation of criminal codes, the enforcement of criminal law and the imposition of penal sanctions.

CRIM 434. ORGANIZED CRIME. (3) *Prerequisites: 6 hours of CRIM or 6 hours of SOCL or consent of instructor.* The study of both traditional and nontraditional organized crime from a sociological perspective.

CRIM 437. THE DEATH PENALTY IN AMERICA. (3) *Prerequisite: 6 hours of CRIM or 6 hours of SOCL or consent of instructor.* Course examines the death penalty in relation to public policy, legal, historical, and ethical issues, as well as arguments for and against its use.

CRIM 438. VICTIMOLOGY. (3) Survey of major theories and research in victimology. Topics include violent victimization, sexual assault, child abuse, and response of criminal justice system to victims.

CRIM 439. INTERNSHIP IN CRIMINOLOGY. (1-6) *Prerequisites: SOCL 300 or 302 and eighty hours of completed college coursework. Course pass required.* Internships are unique experiential learning opportunities. Once placed with a community partner, the student works toward an enhanced understanding of prior coursework through practical experience in a supervised work situation. Repeatable once for a maximum of six credit hours.

CRIM 446. GENDER, CRIME, AND JUSTICE. (3) *Prerequisite: Sixty completed credit hours.* Explores how gender shapes reactions toward victims, offenders, and professionals working in the juvenile and criminal justice systems

CRIM 447. LIFE-COURSE CRIMINOLOGY. (3) *Prerequisites: CRIM 330.* Survey of the theoretical and empirical research examining the onset, escalation, persistence, and desistance of crime and offending patterns over the human life-course.

CRIM 448. INTERNATIONAL JUSTICE AND CRIME. (3) *Prerequisites: CRIM 330.* Comparative survey of crime, national criminal justice systems, and international and transnational criminal justice.

CRIM 451. WHITE-COLLAR CRIME. (3) An overview of the definitions, history, nature and extent of white-collar crime as well as theories and explanations that address its causes, correlates, and efforts at control.

CRIM 456. HOMICIDE AND SERIAL HOMICIDE. (3) *Prerequisite: CRIM 101 and CRIM 330.* Examination of empirical research pertaining to single and multiple victim homicide, including subtypes, theoretical explanations, victimology, and offender behavior.

CRIM 489. CRIMINOLOGY STUDY ABROAD. (1-6) *Prerequisite: Consent of instructor.* Study of comparative criminology, criminal justice systems and topics in international locations. Repeatable up to six hours of credit.

CRIM 495. DIRECTED STUDY IN CRIMINOLOGY. (1-3) *Prerequisites: Junior standing and consent of department head.* Individual and intensive reading and research in specific area of criminology in close cooperation with supervising faculty. Course pass required.

CRIM 496. DIRECTED STUDY IN CRIMINOLOGY. (1-3) *Prerequisites: Junior standing and consent of department head.* Individual and intensive reading and research in specific area of criminology in close cooperation with supervising faculty. Course pass required.

CRIM 499. SENIOR SEMINAR. (1) *Prerequisite: Senior standing.* This course integrates fundamental concepts, theories, research methods, and substantive subject areas learned during the study of criminology. This course serves as the capstone course for the criminology major. (Grading: Pass / Fail)

CS – COMPUTER SCIENCE
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

CS 121. COMPUTATIONAL PROBLEM SOLVING. (4) *Prerequisite: Enrollment in the Gatton Academy of Mathematics and Science in Kentucky.* Students will tackle problems ranging from elementary to advanced, using mathematical methods, algorithmic techniques, and computational methods. This course is taught jointly by mathematics and computer science faculty; it is equivalent to MATH 121.

CS 146. INTRODUCTION TO PROGRAMMING. (3) *Prerequisite: Two years of high school algebra or concurrent enrollment in a college algebra course.* A study of the algorithmic approach in the analysis of problems and their computational solutions. A structured language will be introduced and used in solving assigned problems. Lab sessions may be held in addition to lecture sessions. Not acceptable for credit in computer science major or minor. ***Colonnade F-QR | QR***

CS 157. INFORMATION SECURITY I. (3) An introduction to the concepts, issues, and essential skills of computer security. Topics include computer-based systems, Internet communications, networking, and security. Laboratory sessions will be held as needed. May not be counted toward a computer science major or minor.

CS 170. PROBLEM SOLVING AND PROGRAMMING. (3) *Prerequisite: Eligibility for MATH 116.* The fundamentals of problem solving, program design, and program development techniques. A high-level programming language is used and lab experiences are included. The course may not be counted toward a computer science major or minor.

CS 175. UNIVERSITY EXPERIENCE – COMPUTER SCIENCE. (3) Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers degree programs, campus resources and personal development. Special attention is given to educational requirements, careers, and resources in the field of computer science.

CS 180. COMPUTER SCIENCE I. (4) *Prerequisites: CS 170 with a grade of "C" or higher, or a satisfactory score on a CS placement test, or eligibility for MATH 117 based on criteria developed by the Department of Mathematics.* A study of the algorithmic approach to the analysis of problems and their computational solutions, using a high-level structured language. Labs are included in the course.

CS 221. COMPUTER SCIENCE II. (4) *Prerequisites: CS 180 with grade of C or better, and eligibility to enroll in a calculus course based on criteria developed by the Department of Mathematics*. Continued study of algorithmic problem solving techniques using software engineering and a high-level programming language. Introduction to data structures and their applications. Labs are included in the course.

CS 239. PROBLEM SOLVING WITH COMPUTATIONAL TECHNIQUES. (3) *Prerequisites: MATH 117 with a grade of "C" or better or placement into a science calculus course.* Solving engineering problems using computational techniques. Topics include problem definition, algorithm development, flowcharting, input / output and structured programming. (May count as 1.5 hours towards a major / minor in Computer Science.)

CS 245. INTRODUCTION TO A COMPUTER PROGRAMMING LANGAUGE. (1.5) *Prerequisites: A grade of "C" or better in CS 146 (or equivalent) or consent of instructor.* Designed to introduce the syntax, advantages, limitations, and selected applications of a particular programming language such as ADA, BASIC, C, FORTRAN, LISP, COBOL, PL / I, or assembly language. Will not count toward a computer science major or minor if credit is received for an introduction to the same language in another course. May be repeated for up to 3 semester hours credit.

CS 250. SOCIAL IMPLICATIONS OF COMPUTING. (1.5) *Corequisite: CS 180.* A survey course on the role of computing in society, designed primarily for computer science majors and minors. Discusses current topics related to the use of computing and associated trends.

CS 251. INTRODUCTION TO DATABASE SYSTEMS. (3) *Prerequisites: CS 221 with a grade of "C" or better.* An introduction to relational database management systems and their applications, including the essential skills and methods for the design, development, and implementation of database systems.

CS 257. INFORMATION SECURTIY II. (3) *Prerequisite: CS 157 with a grade of "C" or better.* An overview of information security technologies, management practices and current standards. Topics include security models and technologies, threat analysis and security implementation, risk and incident response management and security policy. Lab sessions will be held as needed. May not be counted toward a computer science major or minor.

CS 270. INTRODUCTION TO WEB PROGRAMMING. (3) *Prerequisites: CS 146, or CS 170, or CS 180 with a grade of "C" or better.* Introductory course in web programming and web application development. Provides students with essential skills for developing basic client-side and server-side applications.

CS 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or Ogden College faculty member recommendation.* To familiarize Ogden Research Scholars and other research oriented students, with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, topic, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count toward any major or minor). Equivalent to BIOL 295, CHEM 295, ENGR 295, GEOL 295, MATH 295, and PHYS 295.

CS 299. INTRODUCTION TO RESEARCH IN COMPUTER SCIENCE. (1-3) *Prerequisites: A "B" or better in CS 180 and 221 or consent of instructor.* Directed research in computer science through reading, programming, and / or other problem solving activities under the guidance of a faculty member. May be repeated up to a total of 6 credit hours.

CS 315. INTRODUCTION TO UNIX. (3) *Prerequisite: CS 221 (corequisite) or permission of instructor*. Use of the UNIX operating system as a program development environment. Topics include programming tools like debuggers, make, advanced editing, shell programming, and use of the X Window system.

CS 325. COMPUTER ORGANIZATION AND ARCHITECTURE. (3) *Prerequisite: CS 221 with a grade of "C" or better.* Advanced assembly programming, instruction sets, processor I / O and bus protocols, memory management, system performance, parallelism, and advanced systems.

CS 339. COMPUTER SCIENCE III. (3) *Prerequisites: Grades of "C" or better in both CS 221 and MATH 136.* Finite and discrete structures, including basic proof techniques, algorithm analysis, graph concepts and algorithms, with their applications in computer science.

CS 351. DATABASE MANAGEMENT SYSTEMS I. (3) *Prerequisite: A grade of "C" or better in CS 221.* An introduction to relational database management systems and their applications. Topics include relational model, relational algebra, SQL, indexes, security, integrity rules, effective database design methods, and database applications.

CS 360. SOFTWARE ENGINEERING I. (3) *Prerequisite: A grade of "C" or better in CS 221 and COMM 145.* Modern development cycle examined via software engineering: needs assessment, requirements analysis, user interface, design, construction, test, maintenance/enhancement. Current methodologies and tools: data dictionary, data flow diagrams, structured walkthroughs, teams, program management.

CS 369. COOPERATIVE EDUCATION IN COMPUTER SCIENCE. (1-3) *Prerequisites: Application for enrollment in cooperative education plan; approval of department head and co-op faculty advisor.* Practical experience in a supervised work situation with a cooperating business, industry, social or governmental agency. May be repeated for up to 3 hours credit in the major or minor.

CS 370. XML AND WEB PROGRAMMING. (3) *Prerequisites: CS 270 and CS 339 with grades of C or better.* A detailed study of tiered web application development. Focus is on developing applications that process and transform XML data and integrate it with databases.

CS 371. ADVANCED COMPUTATIONAL PROBLEM SOLVING. (3) *Prerequisites: CS 180 with a grade of "C" or better. Prerequisite or corequisite: MATH 136. Special requirement: Enrollment in the Gatton Academy of Mathematics and Science or Honors Program eligibility at WKU.* Problem-solving tools and techniques, with an emphasis on mathematical reasoning, algorithmic techniques, and computational methods. Techniques and tools are applied to (research) areas of interest to enrolled students, in the context of a project involving program design and implementation. The course is taught jointly by mathematics and computer science faculty. Equivalent to MATH 371.

CS 372. MOBILE APP DEVELOPMENT. (3) *Prerequisites: Grade of C or better in CS 221.* Introduces and explores mobile app programming, important environment features; and mobile app development frameworks, architecture, and design.

CS 381. INTRODUCTION TO COMPUTER NETWORKS. (3) *Prerequisite: CS 221 with a grade of "C" or better.* An introduction to the design and analysis of computer networks and their applications. Including the basics of data communication, network topologies, protocols, routing and switching, naming, and addressing.

CS 382. PROGRAMMING LANGUAGES. (3) *Prerequisite: A grade of "C" or better in CS 221 and COMM 145.* A study of principles and common features of programming languages. Topics include syntax, semantics, binding, scope, overloading, finite automata, formal languages, ect.

CS 389. PRACTICUM IN COMPUTER SCIENCE. (1-4) *Prerequisites:* A grade of "C" or better in CS 351 and consent of computer science department head. Intended primarily for upper level undergraduates who will undertake significant programming projects. Written reports and documentation are required. May be repeated for up to a total of four hours of credit.

CS 396. INTERMEDIATE SOFTWARE PROJECT. (3) *Prerequisites: A grade of "C" or better in CS 351, ENG 307, and COMM 145.* The course enhances students' abilities to craft software through the development of a significant group project requiring a variety of skills. Topics include simple data analysis and design, group problem solving, human-computer interface design, software project management, security, and quality control. Technical work is complemented by written and oral presentations.

CS 405. NUMERICAL ANALYSIS I. (3) *Prerequisites: MATH 237 or 307 or 310, and CS 180 or CS 146 all with grades of C or better or consent of instructor.* Roots of equations, polynomial approximation and interpolation, numerical differentiation and integration. Computer solutions of problems will be required. Equivalent to MATH 405.

CS 406. NUMERICAL ANALYSIS II. (3) *Prerequisites: MATH 137, and MATH 237 or MATH 307 or MATH 310, and CS 180 or CS 146, all with grades of "C" or better.* The solution of linear system by direct and iterative methods, matrix inversion, the calculation of eigenvalues and eigenvectors or matrices. Initial and boundary value problems in ordinary differential equations. Computer solution of problems will be required.

CS 421. DATA STRUCTURES AND ALGORITHM ANALYSIS. (3) *Prerequisites: A grade of "C" or better in CS 339 and STAT 301.* Important data structures, algorithms, and their applications, emphasizing algorithm analysis and general algorithmic strategies. Includes balanced search trees, hashing, and priority queues, sorting, and graph algorithms.

CS 425. OPERATING SYSTEMS I. (3) *Prerequisites: A grade of "C" or better in CS 325 and CS 382.* Overview of the concepts / theory that underlay operating systems with emphasis on process management, memory management, scheduling, multiprocessing, etc.

CS 443. DATABASE MANAGEMENT SYSTEMS II. (3) *Grades of "C" or better in CS 339 and CS 351, or permission of instructor.* Organization and management of large data files, various database paradigms, database design theory, query optimization, physical database design, database security, distributed databases.

CS 445. OPERATING SYSTEMS II. (3) *Prerequisite: A grade of "C" or better in CS 425.* Advanced study of modern operating system theory and practice. Topics include distributed system structures and coordination, distributed file systems, and protection and security.

CS 446. INTERACTIVE COMPUTER GRAPHICS. (3) *Prerequisites: MATH 307 and CS 339, both with grades of "C" or better.* Introduction to elementary topics in interactive computer graphics. Input devices, display devices, and techniques for 2-D and 3-D transformation will be explored as well as difficulties encountered in each of these areas. Assignments will be used to emphasize interaction, data structures, and applications to various disciplines.

CS 450. COMPUTER NETWORKS. (3) *Prerequisites: CS 325 and CS 381 with grades of C or better, or permission of instructor.* An advanced study of the design and implementation of computer networks. Topics include network topologies, switching techniques, routing, end-to-end protocols, quality of service, and other advanced topics, e.g., wireless networks and multimedia networks.

CS 456. ARTIFICIAL INTELLIGENCE. (3) *Prerequisites: CS 360 and CS 339, both with grades of "C" or better.* Study of problems which have no plausible algorithmic solution. Their computer representations and solutions usually involve heuristics.

CS 473. INTRODUCTION TO GRAPH THEORY. (3) *Prerequisites: MATH 307 and MATH 310 with grades of C or better, or permission of the instructor.* Fundamental concepts, key ideas and tools in graph theory, with an emphasis on proof methods, algorithms, and applications. Techniques and tools are applied to practical optimization problems and other areas of mathematics and computer science. Equivalent to MATH 473.

CS 475. SELECTED TOPICS IN COMPUTER SCIENCE. (1-3) *Prerequisite: Permission of instructor.* A consideration of special topics which will acquaint the advanced student with significant problems and developments of current interest in computer science.

CS 476. RESEARCH METHODS AND PROJECTS IN COMPUTER SCIENCE. (3) *Prerequisite: A grade of "C" or better in CS 360.* The languages, programming techniques and skills acquired in the sequence of core courses in the undergraduate program are applied to the analysis and design of computer-based systems. Top-down design techniques are applied in one or more large-scale programs which require attention to the documentation, communication, and inter-facing or modules in a team project. These techniques are essential in most large-scale research applications of computers. May be repeated for 6 hours.

CS 496. CS SENIOR PROJECT AND PROFESSIONAL PRACTICE. (3) *Prerequisites: CS 360 and 396 with grades of C or better.* Student teams of qualifying seniors will design and implement complex capstone software projects. Topics include practical issues of software development, quality assurance and deployment, project management, computing ethics, and professional practice.

CSCI – COMPUTER SCIENCE
SCHOOL OF PROFESSIONAL STUDIES

CSCI 145C. INTRODUCTION TO COMPUTING. (3) *Prerequisite: Completion of PCC curriculum in algebra*. An introduction to the use of the computer that explores what a computer is, what it can do, and how it does it. The following topics are surveyed: hardware, software, telecommunications, programming languages, software development, a short history of computing, and the computer's impact on society. Projects in word processing, spreadsheets, file management, and BASIC are assigned. Not acceptable for credit in computer science major or minor. ***Course Fee***

CSJ– CENTER FOR CITIZENSHIP & SOCIAL JUSTICE
DEPARTMENT OF DIVERSITY AND COMMUNITY STUDIES

CSJ 200. INTRODUCTION TO SOCIAL JUSTICE. (3) An introductory study of theories, concepts and strategies of social justice, including individual action, policy, advocacy, and collective action. ***Colonnade E-SB | SB***

CSJ 301. SEMINAR IN SOCIAL JUSTICE. (1-3) An examination of current social problems or issues and a consideration of possible courses of action to address the problems or issues. Selected courses may include direct action or organizing for direct action. Repeatable up to six hours.

CSJ 380. TRENDS SHAPING OUR FUTURE: LOCAL AND GLOBAL PERSPECTIVES. (3) *Prerequisites: Sophomore standing; and good standing in the Honors College; or 3.2 GPA; 21 hours of Foundations and Explorations Courses, or junior status*, *or permission of instructor.* An interdisciplinary examination of significant environmental, demographic, political, technological, and economic trends that will shape the world over the next several decades. Issues are examined on both a local and global scale. ***Colonnade K-LG***

CSJ 435. REIMAGINING CITIZENSHIP. (3) *21 hours of Foundations and Explorations Courses, or junior status*. An analysis of the contestations, inclusions and exclusions produced through multiple deployments of the concept of citizenship. ***Colonnade K-SC***

CSJ 499. SOCIAL JUSTICE CAPSTONE. (1-3) *Prerequisite: CSJ 200 or permission of instructor.* A capstone experience in which students engage in and reflect upon public work. Repeatable up to six hours.

DANC – DANCE
DEPARTMENT OF THEATRE AND DANCE

DANC 108. BEGINNING MEN'S BALLET TECHNIQUE. (2) Beginning men's ballet technique. Repeatable up to three times for credit. ***Course Fee***

DANC 110. DANCE APPRECIATION. (3) A general study of the various forms of dance with emphasis on the contributions each has made to the performing arts and the development of our culture. ***Colonnade E-AH | AH***

DANC 111. BALLET I. (2) An introduction to basic techniques of ballet with emphasis on proper techniques, mechanics, differences of the three major systems and terminology. Repeatable up to three times for credit. ***Course Fee***

DANC 112. DANCE FLEXIBILITY / STRENGTH TECHNIQUE. (1) A study of principals of movement involved in the efficient development of the dancer's body with emphasis on a careful approach that will prevent or minimize common dance injuries.

DANC 113. JAZZ I. (2) An introduction to basic techniques of jazz with emphasis on technique, mechanics, rhythmical development and terminology. Repeatable up to three times for credit.

DANC 115. TAP I. (2) An introduction to the basic techniques of tap with emphasis on technique, mechanics, rhythmical development of styles and terminology. Repeatable up to three times for credit.

DANC 117. MODERN I. (2) An introduction to the basic techniques of modern dance with emphasis on technique, mechanics and development of the body as a creative tool. Repeatable up to three times for credit. ***Course Fee***

DANC 211. BALLET II. (2) *Prerequisite: DANC 111 or permission of instructor.* A continuation of DANC 111, further developing and exploring technique and stylistic elements of ballet. This course also emphasizes assimilation and application of theoretical movement principles and historical influences on ballet. Repeatable up to three times for credit. ***Course Fee***

DANC 212. PARTNERING I. (2) *Prerequisite: DANC 211 or permission of instructor.* A study in the basic techniques of partnering with emphasis on the techniques and mechanics that apply to support, timing, and concepts of classical partnering.

DANC 213. JAZZ II. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 113, further developing and exploring technique and styles of jazz dance. This course also emphasizes assimilation and application of theoretical movement principles and historical influences on contemporary jazz dance. Repeatable up to three times for credit.

DANC 215. TAP II. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 115. Repeatable up to three times for credit.

DANC 217. MODERN II. (2) *Prerequisite: Permission of instructor.* A study of modern dance technique at the intermediate level with emphasis on elements of time, space, and energy. Repeatable up to three times for credit. ***Course Fee***

DANC 235. DANCE IMPROVISATION. (2) A guided exploration of dance oriented physical improvisation technique. ***Course Fee***

DANC 300. DANCE COMPANY. (1) *Prerequisite: By audition only*. *Corequisites: Must be concurrently enrolled in two appropriate Jazz, Ballet or Modern Technique courses per semester or by permission of instructor.* Must be concurrently enrolled in an appropriate Jazz, Ballet or Modern technique course. Dance performance ensemble. Repeatable 9 times for a total of 10 hours.

DANC 301. DANCE PEDAGOGY. (3) Study and practice of teaching methods and skills applicable to the teaching of dance technique.

DANC 310. CHOREOGRAPHY I. (3) *Prerequisite: DANC 235, or permission of instructor.* An introduction to the elements that go into the creative development of dance with emphasis on the isolation of various elements for the purpose of detailed study.

DANC 311. BALLET III. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 211, further exploring and developing technique and stylistic elements of ballet. This course also emphasizes assimilation and application of theoretical movement principles and historical influences on ballet. Repeatable up to three times for credit. ***Course Fee***

DANC 312. PARTNERING II. (2) *Prerequisite: DANC 212.* A continuation of DANC 212.

DANC 313. JAZZ III. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 213, further exploring and developing technique and style of jazz dance. This course also emphasizes assimilation and application of theoretical movement principles and historical influences on contemporary jazz dance. Repeatable up to three times for credit.

DANC 314. STYLES OF MUSICAL THEATRE DANCE I. (2) *Prerequisite: DANC 318 or DANC 319, or permission of instructor.* Development of basic practical knowledge of choreographed movement in the musical theatre dance idiom; includes study of fundamentals of ballet for the actor, derivative musical / rhythmic forms, and elementary Broadway dance vocabulary and styles. Repeatable for a total of 8 credit hours.

DANC 315. TAP III. (2) *Prerequisite: Permission of instructor.* Intermediate level of tap technique. This course includes the study of wings, cramp-rolls, advanced riffs, time steps, breaks, turns and soft-shoe dancing. Repeatable up to three times for credit.

DANC 317. MODERN III. (2) *Prerequisite: Permission of the instructor.* A study of modern dance at the advanced intermediate level, with emphasis on dance composition. Repeatable up to three times for credit. ***Course Fee***

DANC 318. BALLET IV. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 311. Repeatable up to three times for credit. ***Course Fee***

DANC 319. JAZZ IV. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 313 with emphasis on the technique and artistic development of jazz dance. Repeatable up to three times for credit.

DANC 320. CHOREOGRAPHY PRODUCTION. (2) *Prerequisite: DANC 310 or permission of instructor.* Application of compositional elements toward a completed choreography project. Includes work on production in progress.

DANC 334. POINTE I. (2) *Prerequisite: DANC 318.* Preparation for and study of techniques applicable to pointe work as a specialized form of classical ballet. Repeatable up to three times for credit. ***Course Fee***

DANC 336. POINT II. (2) *Prerequisite: DANC 334*. Second level in the study of technique applicable to pointe work. This course is designed to develop the accuracy and precision for dancing more complicated pointe variations. Repeatable up to three times for credit.

DANC 350. DANCE HISTORY. (3) A survey of the historical and aesthetic development of dance as an art form in Europe and America from ancient Greece to contemporary periods.

DANC 360. DANCE IN CULTURE: MOVING HISTORY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Survey of world dance forms, emphasizing social, cultural and aesthetic principles defining these forms. Gender, racial, political and religious orientations shaping dance history are examined. ***Colonnade K-SC***

DANC 410. DANCE PRACTICUM. (3) An independent study project that enables the student to do research and special projects in unique areas where the usual course-work does not fulfill the need of the student.

DANC 411. BALLET V. (2) *Prerequisite: Permission of instructor.* A study of ballet technique with emphasis on analysis and correction of mechanics and the combining of techniques into dance sequences. Repeatable up to three times for credit. ***Course Fee***

DANC 413. JAZZ V. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 319 with emphasis on artistic quality, musicality and performance level techniques. Repeatable up to three times for credit.

DANC 415. TAP IV. (2) *Prerequisite: Permission of instructor.* Advanced level of tap technique. This course is designed to develop speed, control, precise articulation, rhythmic accuracy and effective dynamics. Elements of tap style, line and performance will be studied. Repeatable up to three times for credit.

DANC 417. MODERN IV. (2) *Prerequisite: Permission of the instructor.* A study of modern dance at the advanced level, with emphasis on dance performance. Repeatable up to three times for credit. ***Course Fee***

DANC 418. BALLET VI. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 411. Repeatable up to three times for credit. ***Course Fee***

DANC 419. JAZZ VI. (2) *Prerequisite: Permission of instructor.* An exploration of jazz dance, emphasizing comprehension and development of styles. Repeatable up to three times for credit.

DANC 420. CHOREOGRAPHY II. (3) *Prerequisite: DANC 310.* Examines the analytical facet of making and viewing choreography, focusing on theme, meaning, and the artist's creative voice.

DANC 445. DANCE ANATOMY AND KINESIOLOGY. (3) *Prerequisite: 300-level dance technique course or permission of the instructor.* An analysis of the principles of anatomy and kinesiology for dancers.

DANC 451. BALLET VII. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 418. Repeatable up to three times for credit. ***Course Fee***

DANC 453. JAZZ VII. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 419. Repeatable up to three times for credit.

DANC 458. BALLET VIII. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 451. Repeatable up to three times for credit. ***Course Fee***

DANC 459. JAZZ VIII. (2) *Prerequisite: Permission of instructor.* A continuation of DANC 453. Repeatable up to three times for credit.

DCS
Department of Diversity and Community Studies

DCS 300. PUBLIC PROBLEM SOLVING. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Investigation of historical perspectives and theoretical dimensions of public problem solving, with attention to the development of collective power, capacities, and responsibilities. ***Colonnade K-SY***

DCS 360. PLACE, COMMUNITY, AND RESILIENCE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Exploration of the multidisciplinary interconnections of place, identity, and sense of place within organizational and community structures, with attention to the ways systems bounce back under unexpected social and environmental crises. ***Colonnade K-SC***

DCS 363. NARRATIVE, DISCOURSE, AND IMPRISONMENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Through fiction, memoir, and other narrative forms, an examination of the impact of discourse on how imprisonment, literal and metaphorical, shapes and is shaped by cultural forces. ***Colonnade K-SY***

DCS 399. SPECIAL TOPICS IN DIVERSITY & COMMUNITY STUDIES. (1-3) A detailed study of a specialized topic, for students in the Diversity & Community Studies major. Repeatable up to a maximum of 9 hours.

DCS 400. CAPSTONE IN DIVERSITY & COMMUNITY STUDIES. (3) *Prerequisite: Major in Diversity & Community Studies and senior standing.* A senior capstone experience synthesizing learning and assessing the field of study for Diversity & Community studies majors. Includes an exploration of career and graduate study opportunities as well as intensive research and analysis within a single area of diversity & community studies.

DCS 495. DIRECTED STUDY IN DIVERSITY & COMMUNITY STUDIES. (1-3) *Prerequisite: Permission of the instructor.* Supervised individual study and / or field-based experience in a topic of particular relevance to the major in Diversity & Community Studies. Repeatable up to a maximum of 6 hours.

DENG – Developmental English
Department of English

DENG 050C. BASIC GRAMMAR AND PUNCTUATION. (1) A refresher course covering the rules of grammar, punctuation, spelling, and sentence structure. (Grading: Pass / Fail)

DENG 051C. WRITING FOR NON-NATIVE ENGLISH SPEAKERS. (3-6) *Prerequisite: COMPASS Writing Skills Placement Test score of 59 or below or equivalent standardized test score.* A writing course designed to give non-native speakers of English preparation for ENG 100. A grade of "C" or better is a requirement for ENG 100. Equivalent to ENG 051.

DENG 055C. FUNDAMENTALS OF COMPOSITION. (3) Intensive course in the basic mechanics of writing, reading, and grammar, designed to prepare students for college-level work in English. If enrollment is based on ACT and / or ACCUPLACER test scores, then a grade of "C" or better is required for the successful completion of the course. ***DE***

DH – Dental Hygiene
Department of Allied Health

DH 100. INTRODUCTION TO DENTAL HYGIENE. (1) *Prerequisites: 226P, 524P majors, or exploratory students.* Exploratory course for pre-dental hygiene majors. This course will expose students interested in dental hygiene to the field and introduce them to the professional role of a dental hygienist. Communication and personal interaction skills will play a significant role during the course. During the course, students will be introduced to the clinic setting and will conduct a personal plaque control program.

DH 115. INDEPENDENT CLINICAL STUDY. (.5-3) *Prerequisite: Permission of instructor.* Designed to allow students to complete clinical requirements remaining from the previous semester. (Grading: Pass / Fail)

DH 201. DENTAL RADIOLOGY I. (2) This course explores dental radiology starting with fundamental physics. Material covered includes intraoral techniques, the darkroom, patient positioning, radiation hazards and protection.

DH 204. PERIODONTICS. (3) The role of the dental hygienist in the prevention and treatment of periodontal disease is stressed in this course. A study of the macroscopic and microscopic characteristics of the normal periodontium is presented to facilitate the recognition of changes in the gingiva and supporting tissues produced by periodontal pathology. The epidemiology, classification, etiology and prevention of periodontal disease will be covered. Clinical determinations in patient examination and the objectives and techniques in periodontal therapy will be emphasized.

DH 206. DENTAL PHARMACOLOGY. (3) *Prerequisites: CHEM 109 and BIOL 131.* Emphasis in this course is given to drugs that the dental professional actively prescribes in the practice of dentistry. All major drug groups, management of dental and medical emergencies from a pharmacological standpoint and pain control are included.

DH 210. DENTAL MATERIALS AND EXPANDED FUNCTIONS IN RESTORATIVE DENTISTRY I. (2) The first of two courses designed to introduce the student to dental materials and to the basic concepts of operative dentistry and the dental specialties, including the implementation of expanded functions. The course will include a study of the characteristics, physical and chemical properties, manipulation, uses and care of dental materials used in the practice of dentistry. A proficiency level will be acquired through laboratory and clinical experiences.

DH 212. ORAL ANATOMY. (3) A study of the visible anatomy of the oral cavity and the underlying structures. The basic concepts of the anatomy of cranial and facial bones, muscles, nerve supply, blood supply and lymphatic drainage of the head and neck is covered. A study of the eruption, arrangement, function and morphological characteristics of both the permanent and deciduous dentition is presented.

DH 222. PREVENTIVE DENTAL HYGIENE CARE. (2) *Corequisite: DH 270.* Basic concepts of health promotion and oral disease prevention. Communication and behavior modification skills are presented to facilitate the role of the dental hygienist as an educator.

DH 226. DENTAL MATERIALS AND EXPANDED FUNCTIONS IN RESTORATIVE DENTISTRY II. (2) *Prerequisite: DH 210.* The second of two courses covering the utilization of the dental hygienist in expanded functions in operative dentistry. The more advanced concepts and procedures in restorative dentistry will be used to reinforce and expand the previously learned skills. Topics covered include impressions, rubber dam placement and removal, temporary restorations, placement of bases and cavity liners, placement and finishing of amalgam and tooth colored materials and other expanded functions.

DH 230. ORAL HISTOLOGY AND EMBRYOLOGY. (3) *Prerequisite: DH 212.* This course covers the development and growth of the face and oral cavity, including a detailed study in the development of the teeth and their supporting structures. An abbreviated study of General Histology and Embryology and a microscopic study of the primary human tissues precedes the study of Oral Histology, including a detailed study of the tissues of the teeth and surrounding structures.

DH 270. PRE-CLINICAL DENTAL HYGIENE. (3) An orientation to the field of dental hygiene. Subject matter includes the history of dentistry, dental hygiene, professional ethics, professional structure and roles of dental auxiliaries. This course develops an awareness of professional responsibility to preventive services, and to develop knowledge of theoretical principles and purposes of specific oral prophylaxis procedures is also included. The students practice prophylactic techniques on manikin heads. In the final few weeks, they provide limited clinical care to patients.

DH 271. CLINICAL DENTAL HYGIENE I. (4) *Prerequisites: DH 270, 212 and 201.* Emphasis is given to the clinical aspects of training. Lectures concentrate on dental patients with special needs such as diseases, pregnancy or physical handicaps and techniques used in the clinical performance of periodontal probing and root instrumentation. The student is taught to counsel patients in all phases of preventive dentistry and nutrition.

DH 302. DENTAL RADIOLOGY II. (2) *Prerequisite: DH 201.* This second course in radiology is designed to discuss advanced techniques in radiography including extraoral techniques and continue to develop technical skills that result in radiographs of interpretive quality. Emphasis is placed on identification of normal anatomy and abnormal findings. Radiographic manifestations of dental diseases are taught.

DH 303. COMMUNITY DENTAL HEALTH. (4) *Prerequisite: DH 271.* Community dental health is that portion of the dental hygiene curriculum that prepares students to promote oral health and prevent oral disease in a community. The approach taken within the course provides students with the knowledge and skills necessary to meet specific oral health needs of community groups as distinct from the traditional clinical approach that is designed to meet the needs of individual patients. Instructional methods for individual and group presentations are developed and implemented through extramural experiences.

DH 304. ADVANCED PERIODONTOLOGY. (4) *Prerequisite: Open only to matriculated dental hygiene students or registered dental hygienists who have completed all attempted dental hygiene program courses with a grade of "C" or better.* This course is designed to provide the dental hygiene student or dental hygienist with advanced knowledge in periodontics. It will provide students with the conceptual framework and clinical skills to treat periodontal infections.

DH 307. GENERAL AND ORAL PATHOLOGY. (3) This course will be devoted to oral and general pathological conditions of the head and neck. This course encompasses an abbreviated coverage of general pathology to prepare the student for clinical diagnostic procedures in oral pathology, oral medicine, and radiology. The biology of the basic pathologic processes and how these processes produce diseases will be presented. Diseases that require special attention or require alterations in normal dental treatment planning will be emphasized.

DH 309. PAIN CONTROL IN DENTISTRY. (4) *Prerequisites: DH 206, DH 271.* This course is designed to prepare the dental hygiene student to administer local anesthesia and nitrous oxide/oxygen sedation at a clinical level of competency. Students will study and perform various local anesthetic injection techniques, and will administer nitrous oxide and oxygen to achieve conscious sedation. Students will also study the pharmacology of nitrous oxide and local anesthetic agents.

DH 323. RESEARCH METHODS. (3) *Prerequisites: DH 303, PH 383 or permission of instructor.* This course involves study of the research process and its application to dental hygiene education and practice. Emphasis is placed on critical analysis of selected research in dental hygiene and dentistry, including theory of research design, bibliographical and data gathering technique, and interpretation of results.

DH 324. PRACTICE MANAGEMENT AND ETHICS. (3) A course that covers the major aspects of the management of a growing dental and dental hygiene practice in today's society including location, equipment, insurance plans, ethics and jurisprudence. The course also discusses selecting a practice setting and the process of securing employment.

DH 330. CLINICAL TEACHING I. (4) *Prerequisites: DH 371 and FACS 381. Additional special requirement: Current Kentucky Dental Hygiene License.* Integration of previous knowledge and concepts in the supervision of first year dental hygiene students in the pre-clinical and laboratory setting.

DH 340. CLINICAL TEACHING II. (4) *Prerequisite: DH 330. Corequisite: DH 350. Additional special requirement: Current Kentucky Dental Hygiene License.* Integration of previous knowledge and concepts in the supervision of first year dental hygiene students in the laboratory and clinical setting.

DH 350. CLINICAL TEACHING III. (4) *Prerequisite: DH 330. Corequisite: DH 340. Additional special requirement: Current Kentucky Dental Hygiene License.* Clinical teaching experience in classroom areas as selected by the student under the direction of a supervising professor. The student develops behavioral course objectives, test and examination items, classroom teaching areas. The student may select teaching assignments in one of the developed externship student teaching programs. Conferences will be held in conjunction with the course.

DH 360. INTERNATIONAL HEALTH AND HUMAN SERVICES LEARNING PROGRAM. (3) *Prerequisites: DH 270, 210 and permission of instructor.* The purpose of this study abroad/service-learning course is to enhance student learning through the integration of academic and co-curricular experiences. This will be accomplished with active service to community partners, while encouraging civic engagement, community awareness, interdisciplinary teamwork and personal leadership development. Course may be repeated one time for a maximum of six credit hours.

DH 370. CLINICAL DENTAL HYGIENE II. (5) *Prerequisite: DH 271.* A clinical course closely correlated with oral diagnosis and oral pathology. Clinical activities include application of prophylactic technique to patients. Oral examination and charting, fluoride application, radiographic exposure, development, interpretative application, and patient education and sterilization techniques are carried out. The principal goal of this course is to develop the dental hygiene student into an adept, self-directing clinician. Off campus field experiences are required; students responsible for own transportation.

DH 371. CLINICAL DENTAL HYGIENE III. (5) Students are required to perform a specified number of oral prophylaxes on adult patients, patients presenting with special needs, and patients who are medically compromised. Students will also take, process and review dental radiographs and accomplish every clinical procedure that a licensed dental hygienist is expected to provide. Emphasis is also placed on periodontal management of patients.

DMA – Developmental Mathematics
Department of Mathematics

DMA 050C. PRE-ALGEBRA. (3) For students whose arithmetic and basic algebra skills are inadequate for college mathematics. Topics include integers, fractions, decimals, percents and basic algebra concepts.

DMA 055C. BASIC ALGEBRA SKILLS (PRE-COLLEGE). (3) Designed to assist students whose background in algebra is inadequate for success in Intermediate Algebra (DMA 096C) or for those who did not take Algebra I in high school.

DMA 096C. INTERMEDIATE ALGEBRA. (4) *Prerequisite: Satisfactory score on ACCUPLACER test or Math Placement Exam; or completion of DMA 055C with a grade of "C" or better.* For those students needing algebra who do not have the prerequisite for MATH 116 or Math 118. Topics include functions, graphs, and fundamental concepts of algebra. Credit for DMA 096C is not applicable toward a baccalaureate or associate degree. ***DM***

DRDG – Developmental Reading
School of Professional Studies

DRDG 080C. COLLEGE READING STRATEGIES. (3) Preparation for reading at the college level. Emphasis is given to vocabulary recognition, comprehension, inference, and differentiation of reading requirements as related to different courses. If enrollment is based on ACT and/or ACCUPLACER scores, a grade of "C" or better is required for the successful completion of the course. ***DR***

DRDG 090C. COLLEGE STUDY SKILLS. (2) Emphasizes the development and application of study techniques, including time management, studying from the textbook, note-taking, and examinations.

DRDG 098C. VOCABULARY DEVELOPMENT STRATEGIES. (3) This course involves word analysis through examination of word parts, derivatives, definition and usage, with emphasis given to development of basic decoding skills pertaining to college- level, technical terms found across the curriculum.

ECON / ECO – Economics
Department of Economics (ECON)
School of Professional Studies (ECO)

ECON 150 / ECO 150C. INTRODUCTION TO ECONOMICS. (3) A general introduction to economic concepts, ideas, institutions and methods of analysis with emphasis on the description of economic processes and the functioning of institutions in a market economy. This course carries no credit toward any major or minor offered in the Gordon Ford College of Business. Note: This course cannot be taken for credit after completing ECON 202 or 203. ***Course Fee | Colonnade E-SB | SB***

ECON 202 / ECO 202C. PRINCIPLES OF ECONOMICS (MICRO). (3) An introduction to basic descriptive, analytical and policy problems at the microeconomic level. The economic problems resulting from the disparity between human wants and the resources required to satisfy those wants will be studied with emphasis placed on the derivation and behavior of supply and demand functions and the role of prices in the allocation of scarce resources. ***Course Fee | Colonnade E-SB | SB***

ECON 203 / ECO 203C. PRINCIPLES OF ECONOMICS (MACRO). (3) An introduction to basic macroeconomics dealing with descriptive, analytical and policy problems involved in the determination of aggregate income, employment and the price level. Areas of emphasis include money and banking, national income accounting and income-expenditure models. ***Course Fee | Colonnade E-SB | SB***

ECON 206 / ECO 206C. STATISTICS. (3) *Prerequisites: ECON 202 or ECON 203 and MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 610.* An introduction to basic probability and statistics for business and economics. Topics include the collection and presentation of data, descriptive statistics, an introduction to probability and probability distributions, statistical inference, and simple linear regression. ***Course Fee***

ECON 300. MONEY AND BANKING. (3) *Prerequisites: ECON 202 and 203.* An introduction to the functioning of depository institutions and the theory of money. Emphasis is placed on an analysis of the role of money in a global market economy, and the influence exerted by financial institutions and the Federal Reserve System. ***Course Fee***

ECON 302. MICROECONOMIC THEORY. (3) *Prerequisites: ECON 202, 203, and 206.* An intermediate theory course analyzing price determination, output distribution, and resource allocation in a market economy. Topics included are consumer behavior, production theory, market structures and their respective efficiency criteria. ***Course Fee***

ECON 303. MACROECONOMIC THEORY. (3) *Prerequisites: ECON 202, 203, and 206.* An intermediate theory course analyzing Neo-Classical, Keynesian and Post-Keynesian theories of macroeconomic equilibria. The policy implications of these models with respect to income, output, employment and the price level will be emphasized. ***Course Fee***

ECON 305. LABOR ECONOMICS. (3) *Prerequisites: ECON 202 and 203.* Study of modern labor theory and labor market behavior; public policy and implications of policy with topics such as migration, health, wage determination, education, unions, and discrimination. ***Course Fee***

ECON 306. STATISTICAL ANALYSIS. (3) *Prerequisite: ECON 206; NOTE: ECON 306 and ECON 307 may not both be taken for credit.* An introduction to, and foundations for using techniques involved in estimating and testing relationships between variables. The course includes advanced topics in hypothesis testing, analysis of variance, multiple regression and correlation analysis and experimental design. ***Course Fee***

ECON 307. FINANCIAL DATA MODELING. (3) *Prerequisite: ECON 206. NOTE: ECON 306 and ECON 307 may not both be taken for credit.* Tools for modeling financial data for use in decision making. Using spreadsheet software for exploratory data analysis, financial analysis, multiple regression methods, introduction to forecasting time series. ***Course Fee***

ECON 323. SPORTS ECONOMICS. (3) *Prerequisite: ECON 202.* Applies basic economic principles to the analysis of professional and amateur sports. Topics covered include fan demand, public finance, team output decisions, league/conference organization, and government and sports. This course is designed to cater to Economics, Sport Management, and Business Administration. ***Course Fee***

ECON 375. MORAL ISSUES OF CAPITALISM. (3) *Prerequisite: ECON 150 or ECON 202 or 203, or consent of the instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Survey course designed to study the moral issues and consequences of current and changing government policies regarding the operation of markets. ***Course Fee | Colonnade K-SC***

ECON 380. INTERNATIONAL ECONOMICS. (3) *Prerequisites: ECON 202 and 203.* Introduction to the theory of international trade and monetary relations with emphasis on the determinants of the direction, volume, terms and gains from international trade. ***Course Fee***

ECON 385. ECONOMIC DEVELOPMENT. (3) *Prerequisites: ECON 202 and 203.* This is a survey course designed to appeal to students interested in interdisciplinary study. Market and non-market based strategies for economic development are studied with an emphasis on case studies of the experiences of countries in Europe, Asia, Africa, and the Americas. Attention is given to the roles of domestic and international institutions, economic and political freedoms, culture, legal systems, tradition, and global issues of sustainable development. ***Course Fee***

ECON 390. ECONOMICS, LAW, AND PUBLIC CHOICE. (3) *Prerequisites: ECON 302 or ECON 202 with consent of instructor.* Presents basic economic issues and analysis related to topics such as property rights, contracts, torts, crime, voter/interest group activity, legislative output, and bureaucratic output. ***Course Fee***

ECON 400. ISSUES IN CAPITAL MARKET ECONOMICS. (3) Exposure to current economic theory and evidence related to capital markets with emphasis on public policy, the interplay with the macroeconomy, stock price variability, internationalization, and other related topics. ***Course Fee***

ECON 410. SEMINAR IN ECONOMICS. (3) Special topics in economics of current interest. Class format varies with instructor. ***Course Fee***

ECON 414. MANAGERIAL ECONOMICS. (3) *Prerequisites: ECON 202, 203, and 206.* The application of economic principles and tools of analysis to business management decision making in areas of demand, pricing, cost, production and investment. Problems in business decision making are treated in terms of short-run adjustment as well as long-run expansion. ***Course Fee***

ECON 420. PUBLIC FINANCE. (3) *Prerequisites: ECON 202 and 203, or consent of instructor.* A study of the economics of government's spending and taxation. Among the topics covered are government's role in promoting widely accepted economic policy objectives; budgeting and benefit / cost analysis; effects and incidence of major taxes used in the U.S.; and issues in fiscal-federalism. ***Course Fee***

ECON 430. ENVIRONMENTAL AND RESOURCE ECONOMICS. (3) *Prerequisite: ECON 150 or 202 or 203; 21 hours of Foundations and Explorations Courses, or junior status.* A study of environmental issues and natural resource problems and alternative solutions to them. Topics include measurements of environmental benefits, property rights and externalities, environmental quality, pollution control and solid waste management, exhaustible and renewable resources, optimal environmental policy and regulation. ***Course Fee | Colonnade K-LG***

ECON 434. THE ECONOMICS OF POVERTY AND DISCRIMINATION. (3) *Prerequisite: ECON 150 or 202 or 203.* A study of the economic nature, origins, and public policy aimed at addressing poverty and discrimination in the economy. Topics include social security, food stamps, equal employment opportunity legislation, and other public policies designed to reduce poverty and discrimination. ***Course Fee***

ECON 440. AMERICAN INDUSTRY: STRUCTURE, PERFORMANCE AND POLICY. (3) *Prerequisites: ECON 202, 203, and 206.* A course in applied price theory in which the structure, behavior and performance of American industry is evaluated in the light of public and private social goals. Public policy toward the promotion of competition and the control of monopoly will be examined. ***Course Fee***

ECON 445. ECONOMICS OF HEALTHCARE. (3) *Prerequisite: ECON 202.* Health economics studies the unique role that healthcare systems play in the broader area of microeconomics. ***Course Fee***

ECON 451. GAMES AND STRATEGY. (3) *Prerequisite: ECON 202, ECON 203, and ECON 206 with a grade of "C" or higher*. An introduction to game theory analysis. We will develop the theoretical tools to analyze incentives and strategic behavior in individual and group decision making will develop. Emphasis will be placed on real-world applications and include, but is not limited to, bargaining under perfect and imperfect information, Nash equilibrium, pricing under oligopoly and auction theory. ***Course Fee***

ECON 464. INTRODUCTION TO MATHEMATICAL ECONOMICS. (3) *Prerequisites: ECON 302 and 303.* The application of mathematics to economic analysis, covering algebraic and functional relationships, differential and integral calculus, differential and difference equations, matrix algebra, linear programming and game theory. ***Course Fee***

ECON 465. REGRESSION AND ECONOMETRIC ANALYSIS. (3) *Prerequisite: ECON 206.* Presents the use of statistical methods in measuring and testing economic relationships. Emphasizes the use of ordinary least squares in estimating single equation models. Topics included are dummy variables, lagged variables and such problems as autocorrelation, heteroscedasticity, multicollinearity and identification. ***Course Fee***

ECON 467. AMERICAN ECONOMIC HISTORY. (3) *Prerequisites: ECON 202 and 203.* A study of America's economic history from Jamestown to the 21st Century. Topics include the economics of slavery, the Civil War, the Robber Barons, the Great Depression, and the growth of government intervention. ***Course Fee***

ECON 475. URBAN AND REGIONAL ECONOMICS. (3) *Prerequisites: ECON 202, 203, and 206 or consent of instructor.* Considers the fundamental economic relationships within and between economic and political units in the United States. Emphasis is on applied economic analysis dealing with the characteristics of a region, the urban center and employment. ***Course Fee***

ECON 480. ECONOMIC FORECASTING. (3) *Prerequisites: ECON 202, 203 and 465 or permission of instructor.* A survey of forecasting methods, their characteristics, appropriate applications, and evaluation. ***Course Fee***

ECON 490. PRACTICUM IN ECONOMICS. (1-3) *Prerequisites: Junior standing, 2.5 cumulative GPA, permission of the economics department head and the instructor, completion of at least 12 hours in economics.* Internships, independent studies, and special projects of interest to students and faculty in the economics discipline. These may include individual research projects approved by the department head and supervised by a member of the economics faculty, meaningful internships in profit or not-for-profit organizations, or other special projects approved by the economics department head, and the economics faculty. ***Course Fee***

ECON 491. HISTORY OF ECONOMIC THOUGHT. (3) *Prerequisites: ECON 202 and 203 or consent of instructor.* The origin and development of economic thought with emphasis on the contribution of political economy to the behavioral sciences. ***Course Fee***

ECON 496. INTERNATIONAL MONETARY ECONOMICS. (3) *Prerequisite: ECON 202 and 203.* Deals in a systematic fashion with the monetary aspects of international trade and finance. Topics covered include various models of the current account such as elasticities, and absorption. Models of the capital account include the monetary and asset approaches to the balance of payments and rational expectations models of exchange rate overshooting. Problems of international capital movements and policies to maintain internal and external balance are addressed. ***Course Fee***

ECON 497. SENIOR SEMINAR IN MATHEMATICAL ECONOMICS. (1) *Prerequisites: Senior standing and admitted to the major in mathematical economics.* This course is designed to integrate the ideas and techniques students have encountered in their work in mathematics and economics. Students will study research articles are / or undertake independent investigations in mathematical economics. Equivalent to MATH 497. ***Course Fee***

ECON 499. SENIOR ASSESSMENT. (1) *Prerequisites: Senior standing, ECON 465 or ECON 480, and ECON 302 or ECON 303.* A capstone course that provides an opportunity to demonstrate knowledge of economics and discuss educational and career opportunities beyond the baccalaureate degree. ***Course Fee***

EDU – EDUCATION
SCHOOL OF TEACHER EDUCATION

EDU 175. UNIVERSITY EXPERIENCE. (3) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources, and personal development. Special attention is given to educational requirements, careers, and resources in the field of education. Field trips to local public schools and / or other appropriate settings away from campus are required. Students are responsible for their own transportation to designated or assigned sites.

EDU 250. INTRODUCTION TO TEACHER EDUCATION. (3) The introductory course to a career in education. The student will acquire basic knowledge of teacher ethics, career awareness, student diversity, and curriculum. Field experiences are required. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to AGED 250.

EDU 200. BECOMING AN EFFECTIVE GLOBAL CITIZEN. (3) *Prerequisite: Completed 21 hours prior to enrollment.* This course will help students learn highly effective skills across personal, social, and cultural perspectives. Students will examine how their own choices affect others.

EDU 385. CLIMATE, RESOURCES, & SOCIETY. (3) *Prerequisite: GEOG 103, GEOG 110, or GEOG 280 or permission of instructor. 21 hours of Foundations and Explorations Courses, or junior status* Discussion of global climate change from a societal and resources perspective; particularly how humans affect global climate change through population size, natural resource use, policy implementation, personal behavior, and societal norms, and vice versa. Equivalent to GEOG 385. ***Colonnade K-SC***

EDU 400. INVESTIGATIONS IN EDUCATION. (1-3) Individual investigations of methods and materials, curriculum problems, or other topics related to professional education.

EDU 489. STUDENT TEACHING SEMINAR. (3) *Corequisites: ELED 490, MGE 490, SEC 490, or IECE 490.* Analyzes the connection between teaching theory and actual practice. Portfolio refinement with the Teacher Performance Standards will be emphasized. Field experiences in public schools and / or other appropriate settings away from campus are required. Pre-Service Teachers are responsible for their own transportation to designated or assigned sites.

EDU 490. INTERNATIONAL STUDENT TEACHING. (1) *Prerequisites: All professional education courses must be completed including the 3 credit hour Student Teaching Seminar and 10 credit hours of student teaching; a minimum overall GPA of 3.0; a completed and submitted Study Abroad application with a letter of interest, two letters of recommendation from WKU faculty members to the Director of Teacher Services, and a completed successful interview with the faculty selection team.* This course is part of the professional semester and is an elective taken during the senior year after successfully completing 12 weeks of stateside student teaching. Students will teach classes as assigned, serve as teacher assistants, observe, and teach English as appropriate in various international classrooms for (4) weeks.

EDU 491. PRACTICUM FOR TEACHER CANDIDATES. (1) *Prerequisites: Department head recommendation; instruction permission.* Development of knowledge and skills required of teacher candidates. Identified students must take EDU 491 in the term (Winter or May) immediately following the student teaching semester and EDU 489. (Grading: Pass / Fail) ***Course Fee***

EE – ELECTRICAL ENGINEERING
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

EE 101. ELECTRICAL ENGINEERING DESIGN I. (1) *Corequisite: MATH 117 or higher.* The introduction of the design process to electrical engineering students. Includes discussion of problem-solving techniques and teaming skills, an introduction to circuit fabrication techniques, and oral and written communication skills. Multiple hands-on projects. ***Course fee***

EE 130. OUR ELECTRICAL WORLD. (3) An overview of the generation and utilization of electricity in modern society, with emphasis on infrastructure, critical technologies, alternative energy sources, and sustainability.

EE 175. UNIVERSITY EXPERIENCE – ELECTRICAL ENGINEERING. (2) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources and personal development. Special attention is given to educational requirements, careers and resources in electrical engineering. EE design process is introduced.

EE 180. DIGITAL CIRCUITS. (3) *Corequisite: MATH 117 or higher.* An introductory course in digital circuit fundamentals. Topics include number systems, Boolean algebra, binary codes, logic gates, flip-flops, counters, and registers.

EE 200. ELECTRICAL ENGINEERING DESIGN II. (2) *Corequisite: EE 210.* A continuation of the engineering design process including an introduction to circuit and math simulation software tools, printed circuit board software and fabrication techniques. Ethics and professionalism will be addressed. ***Course Fee***

EE 210. CIRCUITS & NETWORKS I. (3.5) *Prerequisite: MATH 137 (C or better). Prerequisite or Corequisite: PHYS 265.* An introductory course in circuit analysis including Kirchhoff's Laws, independent and dependent sources, power and energy, lumped linear fixed networks, power factor, phasors, and three phase networks. Laboratory included.

EE 211. CIRCUITS & NETWORKS II. (3.5) *Prerequisite: EE 210 with a grade of "C" or better. Prerequisite or Corequisite: MATH 331.* A second course in circuit analysis with an emphasis on frequency response techniques. Topics include impedance, transformed networks, Laplace transforms, resonance, two-port parameters, mutual inductance, forced and natural responses, transformers, transient response, and sinusoidal steady-state response. Laboratory included.

EE 300. ELECTRICAL ENGINEERING DESIGN III. (1) *Prerequisites: Completion of Electrical Engineering pre-major requirements and EE 200, or consent of instructor.* Application of numerical methods, statistics, economics and production techniques to the engineering design process. Individualized writing and oral presentation tasks and ethical issues. Design project required. Circuit schematic software. ***Course Fee***

EE 345. ELECTRONICS. (4) *Prerequisite: EE 211.* A first course in electronics. Topics include semiconductor concepts, operational amplifiers, diodes, transistors, biasing, large and small signal analysis. Laboratory included.

EE 350. FUNDAMENTALS OF ELECTRICAL ENGINEERING. (4) *Prerequisite: PHYS 265. Prerequisite or Corequisite: MATH 331.* An introductory course in electrical engineering. Topics include circuit analysis, digital electronics, and energy conversion devices such as magnetic circuits and rotating machinery. Not acceptable as credit for EE majors.

EE 380. MICROPROCESSORS. (4) *Prerequisites: EE 180 and CS 239 with grade of "C" or better and EE 210.* An introductory course in microprocessors. Topics include assembly language, stack operation, vectored interrupts, memory organization, input / output peripheral devices, and hardware design of a computer system. Laboratory included. ***Course Fee***

EE 400. ELECTRICAL ENGINEERING DESIGN IV. (2) *Prerequisites: Senior standing in Electrical Engineering and consent of instructor.* This course is designed to prepare students for the workplace by discussing such issues as interviewing, resume writing, ethics, and professional issues. Also design methodology and decision making will be discussed. The students will complete their proposals for EE 401 during this course.

EE 401. EE DESIGN PROJECT. (3) *Prerequisites: EE 400 and consent of instructor.* A course designed for the student to assume the primary responsibility for the completion of an electronic or electrical project.

EE 405. EE SENIOR RESEARCH SEMINAR. (1) *Corequisite: EE 400 or permission of instructor.* Contemporary topics in electrical and computer engineering, literature, surveys, scientific reporting, peer reviews and intellectual property.

EE 410. COMPUTER DESIGN. (3) *Prerequisite: EE 380. Corequisite: EE 411.* Topics include a review of logic design and elementary computer organization. Asynchronous and synchronous logic design using VHDL and programmable logic. Design of the central processing unit, memory, control, and input-output portions of a computer. The VHDL hardware design language will be used.

EE 411. COMPUTER DESIGN LAB. (1) *Prerequisite: EE 380. Corequisite: EE 410.* This course is a laboratory which illustrates analysis and design principles of EE 410. It includes experiments in the design of the central processing unit, memory, control, and input-output portions of a computer using VHDL and PC based for software simulation.

EE 420. SIGNALS AND LINEAR SYSTEMS. (3) *Prerequisites: EE 211 with a grade of "C" or better and MATH 331. Prerequisite or Corequisite: MATH 307 or MATH 350.* Topics include analysis of continuous-time and discrete-time, discrete-parameter, time-invariant, linear systems based upon the convolution integral, Fourier series and transform, Laplace transform, Z-transform, and state-space methods. Topics include impulse response, transfer function, energy spectra, filtering, sampling, and applications to networks, communications, and controls.

EE 431. INTRODUCTION TO POWER SYSTEMS. (3.5) *Prerequisites: EE 211, MATH 237, and EE 473.* Introduction to the principles and concepts of electrical power and analysis of major components of an electric power system. Topics include basic electromechanics, transformers, ac and dc machines, transmission lines, and system analysis. Laboratory included.

EE 432. POWER SYSTEMS II. (3) *Prerequisite: EE 431.* Analysis of power systems in the steady state. Includes the development of models and analysis procedures for major power system components and for power networks.

EE 436. ELECTRIC MACHINES AND DRIVES. (3) Prerequisite: EE 473 and EE 345. Introduction to principles and contemporary applications of electric machines and drive systems as they pertain to electric vehicles, wind turbines, residential appliances, etc. Topics include the principles of electromechanical energy conversion, switch mode power converters, DC and AC machines, designing feedback controller for motor drives, and speed or torque control of both DC and AC motor drives.

EE 443. MICROFABRICATION AND MEMS. (3) *Prerequisites: EE 420, CHEM 116 or 120.* Microfabrication techniques including cleanroom technology, lithography, thermal oxidation, diffusion, ion implantation, film deposition, etching, micromachining, wafer-level bonding / polishing, and packaging yield. Microtechnology measurement and analysis techniques. Process simulation. CAD device-layout. Microelectromechanical systems (MEMS) and microelectrical technology and application. Material issues for MEMS / microelectronics.

EE 445. ADVANCED ELECTRONICS. (3) *Prerequisite: EE 345.* Advanced topic in electronics including: Power semiconductors devices; converter topologies and their applications; switch-mode dc and uninterruptible power supplies; motor drives; EMI concerns and remedies for the interfacing to electric utilities.

EE 450. DIGITAL SIGNAL PROCESSING. (3) *Prerequisite: EE 420. Corequisite: EE 451.* Topics include discrete time signals and systems, discrete Fourier transforms, FFT algorithms, flow graph and the matrix representation of digital filters, FIR and IIR filter design techniques, quantization effects, spectral estimation, current applications of digital signal processing.

EE 451. DIGITAL SIGNAL PROCESSING LAB. (1) *Prerequisite: EE 420. Corequisite: EE 450.* This course focuses on the implementation of common digital signal processing function using state-of-the-art DSP devices and software. The fundamentals of discrete-time signal processing and digital signal processor architectures and applications are introduced. Emphasis is on laboratory experience involving generation of deterministic and random signals; digital filter design; quantization effects; FFT computation; linear system analysis; speech processing.

EE 460. CONTINUOUS CONTROL SYSTEMS. (3.5) *Prerequisites: EE 420 ("C" or better) or ME 310 ("C" or better) and MATH 307 or MATH 350 or MATH 370.* A study of continuous control systems that will address the following topics: system modeling, feedback systems, systems stability, root locus plots, Bode plot, state space analysis, and design of controllers. Laboratory included.

EE 461. DISCRETE CONTROL SYSTEMS. (3) *Prerequisite: EE 420 ("C" or better) or ME 310 ("C" or better) and MATH 307 or MATH 350 or MATH 370.* An applied study of discrete control systems. Topics include: modeling of discrete-time systems, applications of z-transforms, difference equations, stability analysis, root-locus analysis, and design of discrete controllers.

EE 462. SPECIAL TOPICS IN CONTROL SYSTEMS. (3) *Prerequisite: EE 460.* A presentation of current topics of control systems theory that builds on the contents in EE 460.

EE 465. ROBOTIC DESIGN. (3) *Prerequisites: Junior standing and consent of instructor.* A pass / fail course for students involved in the design and building of the EE robot project.

EE 470. COMMUNICATIONS AND MODULATION. (3) *Prerequisite: EE 420 and STAT 301. Corequisite: EE 475.* Topics include modulations such as AM, FM, PAM, PPM, PDM, single sideband, vestigial sideband. Coherent and non-coherent detection, heterodyne action, performance and distortion, circuits for modulation and demodulation.

EE 473. ELECTROMAGNETICS I. (3) *Prerequisites: MATH 331, MATH 237 (C or better), and PHYS 265 (C or better).* Topics include electrostatic and magnetostatic fields; Faraday's laws, Maxwell's equations, electromagnetic properties of matter, uniform plane waves, and transmission lines.

EE 475. COMMUNICATION SYSTEMS LAB. (1) *Prerequisite: EE 420. Corequisite: EE 470.* Topics include laboratory exercises involving the design and analysis of electronic communication systems for the transmission of analog and digital data at radio frequencies.

EE 477. NUMERICAL TECHNIQUES IN ELECTROMAGNETICS. (3) *Prerequisite: EE 473 or PHYS 440.* Topics include finite difference and finite element solutions to problems in electromagnetics; absorbing boundaries for wave propagation; convergence and stability; validation with empirical and analytical approaches.

EE 479. OPTOELECTRONICS. (3) *Prerequisites: EE 345 and EE 473.* Topics include basic wave optics, Snell's Law, optical storage, LED's micro-opto-electromechanical systems, optical sensors, fiber optics, solar cells, and fundamentals of lasers.

EE 480. EMBEDDED SYSTEMS. (3) *Prerequisite: EE 380.* A continuation of the study of digital systems and microprocessors focusing on the principles and applications of embedded systems.

EE 490. INTRODUCTION TO ROBOTICS. (3) *Prerequisite: EE 420.* History and application of robots. Robot configurations including mobile robots. Spatial descriptions and transformations of objects in three-dimensional space. Forward and inverse manipulator kinematics. Task and trajectory planning.

ELED – ELEMENTARY EDUCATION
SCHOOL OF TEACHER EDUCATION

ELED 345. TEACHING STRATEGIES FOR ELEMENTARY TEACHERS. (3) *Prerequisites: EDU 250 and PSY 310 with a grade of "C" or higher; a passing score on specified standardized instrument, overall GPA of 2.75 or higher, and admission to Teacher Education pending. Prerequisite or Corequisite: SPED 330.* Integrates planning and evaluative techniques with appropriate learning theories. Learning activities for the full range of ability / development levels of students are prescribed.

ELED 355. STUDENT DIVERSITY IN THE CLASSROOM. (3) *Prerequisites: EDU 250, PSY 310, SPED 330 and ELED 345 with a grade of "C" or higher; and admitted to Teacher Education. Corequisites: ELED 407 and 365.* Focus will be on the range of student diversity and identification of characteristics of children in an integrated elementary classroom. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for their own transportation to designated or assigned sites.

ELED 365. TEACHING STRATEGIES FOR ELEMENTARY TEACHERS II. (3) *Prerequisites: ELED 345 and SPED 330 with grades of "C" or higher, and admitted to Teacher Education. Corequisites: ELED 407 and ELED 355.* The second course in a two course series dedicated to teaching strategies. Focuses on strategies unique to teaching in an integrated elementary classroom. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for their own transportation to designated or assigned sites.

ELED 405. TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL. (3) *Prerequisites: MATH 308, ELED 355, ELED 365, and ELED 407, all with grades of "C" or higher; completion of General Education Category D1 science courses, and admitted to Teacher Education. Corequisites: ELED 406 and 465.* Materials and methods of instruction in mathematics for grades P-5 with emphasis upon creative utilization of available materials and techniques. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

ELED 406. TEACHING SCIENCE IN THE ELEMENTARY SCHOOL. (3) *Prerequisites: MATH 308, ELED 355, ELED 365, and ELED 407, all with grades of "C" or higher; completion of General Education Category D1 science courses, and admitted to Teacher Education. Corequisites: ELED 405 and ELED 465.* A study of the objectives and place of science in grades P-5. The course includes planning units of work, organizing and using materials and resources, and developing ability in the techniques of elementary school science teaching. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. ***Course Fee***

ELED 407. MATERIALS AND METHODS IN SOCIAL STUDIES. (3) *Prerequisites: ELED 345 and SPED 330 with grades of "C" or higher; admitted to Teacher Education, and completion of the General Education Category "C" Social and Behavioral Science courses. Corequisites: ELED 365 and ELED 355.* A study of the objectives, materials, organization, and instructional techniques in the social studies appropriate to grades P-5. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

ELED 465. SENIOR PROJECTS IN ELEMENTARY EDUCATION. (3) *Prerequisites: MATH 308, ELED 355, ELED 365, and ELED 407, all with grades of "C" or higher; completion of General Education Category D1 science courses, and admitted to Teacher Education. Corequisites: ELED 405 and ELED 406.* Part of the professional block semester, which is the culminating experience for elementary teacher candidates prior to the student teaching semester. Projects related to the corequisite courses will be completed. Field experience in public school and / or other appropriate settings away from campus will be required. Students are responsible for their own transportation to designated or assigned sites.

ELED 490. STUDENT TEACHING. (5-10) *Prerequisites: Admission to teacher education; admission to student teaching; and completion of the following courses with grades of "C" or higher: MATH 205, 206, and 308. Corequisite: EDU 489.* Supervised assignment in approved school setting. Must complete a minimum of 70 days in one or two placements depending on certification requirements. Students follow the academic calendar of the school district in which they are placed and are responsible for providing their own transportation to assigned site(s). ***Course Fee***

ELED 491. LECTURE IN LIEU OF STUDENT TEACHING. (5) Seminar in current issues in teaching for certified teachers seeking additional endorsement. Director of Student Teaching approval required.

EM – ENGINEERING MECHANICS
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

EM 221. UK STATICS. (3) *Prerequisite: MATH 136. Prerequisites or corequisite: MATH 137, PHYS 255.* A study of forces on bodies at rest. Vector algebra, study of force systems, equivalent force systems, distributed forces, internal forces, principles of equilibrium, application to trusses, frames and beams and friction. This course is delivered by the University of Kentucky.

EM 222. WKU STATICS. (3) *Prerequisite: MATH 136. Prerequisites or corequisites: MATH 137 and PHYS 255.* A study of forces on bodies at rest. Vector algebra, study of force systems, equivalent force systems, distributed forces, internal forces, principles of equilibrium, application to trusses, frames, and beams and friction. Course delivered by Western Kentucky University.

EM 302. UK MECHANICS OF DEFORMABLE SOLIDS. (3) *Prerequisites: EM 222 with a grade of "C" or better, MATH 137.* A study of fundamental principles and physical laws governing the response of mechanical components to external forces. Concepts of stress, equivalent systems, rigid body equilibrium, stress-strain and deformation, torsion, internal forces and bending moments, shear and bending moment diagrams, flexural loading, Mohr's circle and pressure vessels are presented. This course is to be delivered by the University of Kentucky.

EM 303. WKU MECHANICS OF DEFORMABLE SOLIDS. (3) *Prerequisites: MATH 137 with a grade of C or better, EM 222 with a grade of C or better, PHYS 225 with a C or better.* Study of fundamental principles and physical laws governing the response of mechanical components to external forces. Concepts of stress, equivalent systems, rigid body equilibrium, stress-strain and deformation, torsion, internal forces and bending moments, shear and bending moment diagrams, flexural loading, Mohr's circle and pressure vessels are presented. This course is delivered by Western Kentucky University.

EM 313. DYNAMICS. (3) *Prerequisites: EM 222 with a grade of C or better, MATH 331 (may be taken concurrently), PHYS 255 with a grade of C or better.* Study of the motion of bodies. Kinematics: Cartesian and polar coordinate systems, normal and tangential components, translating and rotating reference frames. Kinetics of particles and rigid bodies: laws of motion: work and energy: impulse and momentum.

ENG/ENGL – ENGLISH
DEPARTMENT OF ENGLISH

ENG 051. WRITING FOR NON-NATIVE ENGLISH SPEAKERS. (3-6) *Prerequisite: COMPASS Writing Skills Placement Test score of 59 or below or equivalent standardized test score.* A writing course designed to give non-native speakers of English preparation for ENG 100. A grade of "C" or better is a requirement for ENG 100. Equivalent to DENG 051C.

ENG 100/ENGL 100C. INTRODUCTION TO COLLEGE WRITING. (3) *Prerequisites: Minimum score of 16 on English section of ACT or 60 on Compass Writing Skills Placement Test or successful completion of DENG 055 or DENG 051 with a grade of "C" or better. Students with ACT English scores of 16 and 17 or 60 to 73 on the Compass Writing Skills Placement Test will be required to attend an enhanced section of ENG 100 which includes an extra hour of class time. Students who have unsuccessfully attempted ENG 100 (earned grade of W, F, or FN) may not retake ENG 100 as a WEB section except under extraordinary circumstances, and then only with the written permission of the Director of Composition.* Emphasizes writing for a variety of rhetorical situations with attention to voice, audience and purpose. Provides practice in development, organization, revision and editing. Introduces research skills. Equivalent to ENGL 100C. ***Colonnade F-W1 | WC***

ENG 104. INTRODUCTION TO LINGUISTICS. (3) A general introduction to language study with emphasis on units of sound, units of meaning, sentence structure, dialects, and other cultural aspects of language. Focus is on the English language.

ENG 200/ENGL 200C. INTRODUCTION TO LITERATURE. (3) *Prerequisite: ENG 100.* Introductory study of fiction, poetry, and drama demonstrating techniques by which literary artists reflect human experience. Substantial student writing about literature will be required. Equivalent to ENGL 200C. ***Colonnade F-AH | AH***

ENG 202. HONORS FORUM. (1) An informal introduction to English honors. Topics vary by term.

ENG 203. CREATIVE WRITING. (3) *Prerequisites: Colonnade Category F-AH.* An introduction to the writing of various genres including poetry, fiction, creative nonfiction, and / or drama.

ENG 204. ENGLISH LANGUAGE. (3) *Prerequisite: ENG 100.* Study of the structure of English words and sentence patterns including review of the historical conditions leading to the development of Modern English grammar.

ENG 212. INTRODUCTION TO DIGITAL TEXTS AND MEDIA. (3) *Prerequisites: ENG 100.* Students will study the rhetorical, critical, and ethical dimensions of digital composing, producing genres such as web-based videos, podcasts, blogs, websites, and video essays.

ENG 290. ENGLISH TOPICS ABROAD. (1-3) *Prerequisite: Permission of instructor.* This course focuses on special topics in English that are appropriate to study abroad sites, such as comparative literature or travel writing. Only taught in study abroad programs. Will not count for the English major. May be repeated twice, for a total of 9 hours.

ENG 299. INTRODUCTION TO ENGLISH STUDIES. (3) *Prerequisite: Colonnade Category F-AH.* Introduction to the discipline of English studies for literature and writing majors, including exploration of issues and conflicts within the discipline, strategies for reading and researching literary texts, overview of requirements and opportunities within the major and introduction to career and graduate study options.

ENG 300/ENGL 300C. WRITING IN THE DISCIPLINES. (3) *Prerequisites: Colonnade Category F-AH.* Interdisciplinary writing course to be taken in the junior year. Students will read and write about challenging texts from a number of fields. Each student will produce a substantial research project appropriate to his or her chosen field.
Colonnade F-W2 | WC

ENG 301. ARGUMENT AND ANALYSIS IN WRITTEN DISCOURSE. (3) *Prerequisites: ENG 100 and ENG 300.* A survey of major theories of argument and analysis with special attention to writing effective argumentative and analytical essays.

ENG 302. LANGUAGE AND COMMUNICATION. (3) *Prerequisite: ENG 100.* A course in English grammar and usage designed primarily for elementary education majors. Emphasis is given to sentence structure. Attention is also given to the nature of language, historical backgrounds, dialects, and standards of correctness.

ENG 303. INTERMEDIATE FICTION WRITING. (3) *Prerequisites: ENG 200 and 203 or permission of instructor.* A concentrated study of the techniques of writing fiction, emphasizing contemporary theory and practice.

ENG 305. INTERMEDIATE POETRY WRITING. (3) *Prerequisites: ENG 200 and 203 or permission of instructor.* An intensive course in the writing of poetry. Some attention to the practice and prevalent theories of contemporary poets.

ENG 306. BUSINESS WRITING. (3) *Prerequisite: ENG 100.* Designed to meet the needs of students in business fields, this course teaches the preparation of written reports, case studies, and other forms of professional writing.

ENG 307. TECHNICAL WRITING. (3) *Prerequisite: ENG 100.* Designed to meet the needs of students in engineering and other technical fields, this course teaches the preparation of written and oral reports. Emphasizes formal and informal reports, but also includes various kinds of business letters, memoranda, and other forms necessary in the students' future professional role.

ENG 309. DOCUMENTARY FILM. (3) *Prerequisite: Colonnade Category F-AH.* Introductory study of documentary film and theory with special attention to the genre's complex reception as "non-fiction" in diverse social and cultural contexts. Among the forms to be studied are the essay-film, cinema verite, reportage, and mockumentary. Will include a film viewing lab.

ENG 311. CREATIVE NONFICTION WRITING. (3) *Prerequisites: ENG 200 and 203 or permission of the instructor.* An intensive study of the writing of creative nonfiction (literary nonfiction prose), with emphasis on contemporary theory and practice.

ENG 312. READING AS A WRITER. (3) *Prerequisites: ENG 203. Restricted to English majors in the Creative Writing Concentration.* A close reading of literary works and craft essays as well as analysis and emulation of forms and techniques of published literary writers for creative writing students.

ENG 320. AMERICAN STUDIES I. (3) *Prerequisite: Colonnade Category F-AH or the equivalent and 21 hours of Foundations and Explorations Courses, or junior status.* Designed to examine the diverse origins and the decisive elements in the development of American culture and to provide a wide cultural appreciation and a greater understanding of the mainstream of American thought. ***Colonnade K-SC***

ENG 321. AMERICAN STUDIES II. (3) *Prerequisite: ENG 200 or the equivalent.* Designed to examine further the diverse origins and the decisive elements in the development of American culture and to provide a wide cultural appreciation and a greater understanding of the mainstream of American thought.

ENG 329. SPECIAL TOPICS IN CREATIVE WRITING. (3) *Prerequisite: ENG 203.* A semester-long, detailed study of a specified topic in creative writing. May be repeated twice for a maximum of nine credit hours.

ENG 333. MEDIEVAL LITERATURE. (3) *Prerequisites: Colonnade Category F-AH.* Study of the literature of the Western Middle Ages from c. 500-1500. Non-English texts will be read in translation.

ENG 339. SPECIAL TOPICS IN LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* A semester-long, detailed study of a specified topic in literature. May be repeated twice for a maximum of nine hours credit.

ENG 340. SPECULATIVE FICTION. (3) *Prerequisite: Colonnade Category F-AH.* A survey of the development of the genre, including science fiction, and its relationship to main literary currents.

ENG 349. SPECIAL TOPICS IN PROFESSIONAL WRITING. (3) *Prerequisite: ENG 306 or 307.* A semester-long, detailed study of a specified topic in professional writing. May be repeated twice for a maximum of nine credit hours.

ENG 354. HISTORY OF DRAMA TO 1640. (3) *Prerequisite: Colonnade Category F-AH.* A comprehensive course which traces the major developments in drama from the ancient Greeks to 1640. Emphasis on representative dramatists and plays. Equivalent to THEA 354.

ENG 355. HISTORY OF DRAMA SINCE 1640. (3) *Prerequisite: Colonnade Category F-AH.* A continuation of ENG 354. Equivalent to THEA 355.

ENG 358. DRAMA WRITING. (3) *Prerequisites: ENG 200 and 203 or permission of instructor.* A concentrated study of the techniques of drama writing emphasizing contemporary theory and practice. Equivalent to THEA 358.

ENG 359. TOPICS IN SCRIPTWRITING. (3) *Prerequisites: FILM 250; or ENG 203 or ENG 350, and permission of instructor.* Focuses on topics in scriptwriting including, but not limited to, writing for television (narrative), writing the genre feature, and writing for the stage. Emphasizes the practices of contemporary scriptwriters in various genres. *Repeatable once for a total of 6 credits.* Equivalent to FILM 359.

ENG 360. GAY AND LESBIAN LITERATURE. (3) *Prerequisites: Colonnade Category F-AH.* Study of gay, lesbian, and queer literature with emphasis on critical theory and the concepts of sex and gender in global, cultural, and historical contexts.

ENG 365. FILM ADAPTATION. (3) *Prerequisites: Colonnade Category F-AH.* Examines the adaptation of literary works into film not only as an intertextual product but as a process of creative transformation, with emphasis on film analysis and some attention to adaptation theory.

ENG 366. HISTORY OF NARRATIVE FILM. (3) *Prerequisites: Colonnade Category F-AH.* Examines the history and development of narrative film from the silent era to the present. Emphasis on specific narrative conventions of Hollywood cinema. Equivalent to FILM 366.

ENG 369. INTERNSHIP I. (3) *Prerequisite: Admission to departmental internship program. Appropriate supervised work with a cooperating organization..*

ENG 370. U.S.ETHNIC LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* Study of literature by Latina/o, Native American, Asian American and / or U.S. writers from additional racial and ethnic groups..

ENG 381. SURVEY OF BRITISH LITERATURE I. (3) *Prerequisite: Colonnade Category F-AH.* A study of selected works by representative authors reflecting the chronological development of British literature to 1789.

ENG 382. SURVEY OF BRITISH LITERATURE II. (3) *Prerequisite: Colonnade Category F-AH* A study of selected works by representative authors reflecting the chronological development of British literature from 1789 to the present.

ENG 385. STUDIES IN WORLD LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* Study of global literatures with an emphasis on non-U.S. and non-British texts.

ENG 387. STUDIES IN AUTOBIOGRAPHY. (3) *Prerequisites: Colonnade Category F-AH.* An examination of the literary components and cultural context of autobiographical works, with particular emphasis on under-represented groups, gender, race, and class.

ENG 388. POSTCOLONIAL STUDIES. (3) *Colonnade Category F-AH and 21 overall hours of Colonnade Foundations and Exploration Courses.* A survey of postcolonial literature and theory, including works from Australia, India, Africa, the Caribbean, and the Middle East. ***Colonnade K-LG***

ENG 389. INTERNSHIP II. (3) *Prerequisite: Admission to departmental internship program.* Appropriate supervised work with a cooperating organization.

ENG 391. SURVEY OF AMERICAN LITERATURE I. (3) *Prerequisite: Colonnade Category F-AH.* A study of selected texts reflecting the chronological development of American literature to 1865.

ENG 392. SURVEY OF AMERICAN LITERATURE II. (3) *Prerequisite: Colonnade Category F-AH.* A study of selected texts reflecting the chronological development of American literature from 1865 to the present.

ENG 393. AFRICAN AMERICAN LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* Study of literature by African American writers.

ENG 394. KENTUCKY LITERATURE. (3) *Prerequisites: Colonnade Category F-AH.* Selected texts by writers from and about the state of Kentucky.

ENG 395. CONTEMPORARY U.S. LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* Examine trends in recent literature across multiple genres.

ENG 396. MYTHOLOGY. (3) *Prerequisite: Colonnade Category F-AH.* Greek, Roman and Norse myths and their influence on art and literature.

ENG 398. HEMINGWAY AND FAULKNER. (3) *Prerequisites: Colonnade Category F-AH and honors participation or 3.2 GPA required.* A critical study of the major literary works of Ernest Hemingway and William Faulkner. For honors-eligible students only.

ENG 399. TOPICS IN ENGLISH. (3) *Prerequisite: Colonnade Category F-AH.* A semester-long, detailed study of a specified topic in language, literature, or composition.

ENG 401. ADVANCED COMPOSITION. (3) *Prerequisites: ENG 100 and ENG 300.* Theory and practice in reading and writing various genres of non-fiction, including researched essays, cultural critique, exposition, narrative, and argument. Special attention to style, voice, arrangement and advanced writing techniques.

ENG 402. EDITING AND PUBLISHING. (3) *Prerequisites: Either ENG 306 or ENG 307 and one additional upper-level professional writing class.* Editing collections of student works in several types, including experience in computer text editing, lectures and by visiting publishers and editors of books, journals, and newspapers.

ENG 403. WRITING MEMOIR AND AUTOBIOGRAPHY. (3) *Prerequisites: ENG 203 and 300.* A course in the techniques of writing autobiography; readings will be chosen primarily from contemporary American examples of the genre.

ENG 404. HISTORY OF THE ENGLISH LANGUAGE. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH.* A study of the origins and development of the language from Indo-European to modern English, with emphasis on developments in the sound system, vocabulary and grammar. Attention is also given to historical and cultural forces, which have affected the language.

ENG 407. LINGUISTIC ANALYSIS. (3) *Prerequisite: ENG 104 or ENG 302 or ENG 204, or equivalent with a grade of C or higher.* The study of current linguistic theory, which includes the important levels of language as a means of communication, as well as some of the various theories and applications of linguistic theory to other fields of study.

ENG 408. PSYCHOLINGUISTICS AND SOCIOLINGUISTICS. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH, and ENG 407.* The study of developmental psycholinguistics (language acquisition), experimental psycholinguistics (speech production / comprehension), and sociolinguistics (how language varieties are used by families, school systems and multicultural nations).

ENG 409. PRACTICUM IN ONE-TO-ONE WRITING INSTRUCTION. (1) *Prerequisites: ENG 200 or Colonnade Category F-AH.* Participants will study the theory and practice of writing conferences and tutorials. Course will prepare participants to work individually with students in tutorial settings.

ENG 410. COMPOSITION THEORY AND PRACTICE IN WRITING INSTRUCTION. (3) *Prerequisites: Colonnade Category FW-2 and either ENG 204 or ENG 302.* A study of contemporary theories of composition with an emphasis on their application to writing and the teaching of writing.

ENG 411. DIRECTED WRITING. (3) *Prerequisite: Permission of the instructor.* A tutorial for students to work under the supervision of a writing instructor. Students choose the form of writing they wish to pursue.

ENG 412. THEORIES OF RHETORIC AND PERSUASIVE WRITING. (3) *Prerequisites: Colonnade Category F-W2.*A survey of the history of rhetorical theory from the classical to the contemporary period with emphasis on how theories reflect and guide persuasion in public and written discourse.

ENG 413. CREATIVE WRITING CAPSTONE. (3) *Prerequisites: Two upper-level writing courses; creative writing majors or minors with senior standing.* A capstone course in the creative writing concentration; provides a workshop setting for students with substantial creative writing projects.

ENG 414. PROFESSIONAL WRITING CAPSTONE. (3) *Prerequisites: Two upper-level writing courses in the Professional Writing option and senior standing.* A capstone course for students in the English major with a professional writing concentration; provides a workshop setting for students with substantial writing projects and culminates in production of a portfolio of professional writing.

ENG 415. WRITING AND TECHNOLOGY. (3) *Prerequisite: ENG 300.* Study of issues surrounding interrelations of technology and writing; effects of technologies (e.g., printing press, computers) on writing processes and on types of writing; institutional changes wrought by computers.

ENG 416. LITERATURE / EST CAPSTONE. (3) *Prerequisites: ENG 299 and senior standing.* Capstone experience for senior literature concertation and English for Secondary Teaching majors. Will synthesize experience in discipline, conduct advanced study of literary topic(s), and explore professional opportunities.

ENG 430. 19TH CENTURY AMERICAN LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* Seminar in 19th Century American Literature; course topics will vary.

ENG 455. AMERICAN DRAMA. (3) *Prerequisites: Colonnade Category F-AH.* This course deals with the development of American drama from Colonial productions to present-day plays. Equivalent to THEA 455.

ENG 457. BRITISH LITERATURE SINCE 1900. (3) *Prerequisites: Colonnade Category F-AH.* A study of British fiction, poetry, and / or drama produced between 1900 and the present. Topic will vary.

ENG 459. MODERN DRAMA. (3) *Prerequisites: Colonnade Category F-AH.* A selected study of dramatic literature since Ibsen with emphasis on evolving developments and trends in world theatre. Equivalent to THEA 459.

ENG 460. LITERARY THEORY AND CRITICISM. (3) *Prerequisites: Colonnade Category F-AH and at least one upper-level literature course*. A study of theories and methods of literary and cultural analysis selected from ancient times to the present. Focus includes the written practice of criticism in response to a wide variety of texts.

ENG 465. FILM GENRES. (3) *Prerequisites: ENG 100 and 200 and either FILM 201 or ENG 365, or instructor's permission.* Study of the historical development, thematic and stylistic conventions, and cultural significance of film genre(s). Surveys representative films from one or two genres, e.g., film noir and the Western; romantic comedy and family melodrama; horror and science fiction; the musical; the war film; the epic. May be taken twice as long as genres differ. Equivalent to FILM 465.

ENG 466. FILM THEORY. (3) *Prerequisites: ENG 366, ENG 365; FILM 201, or permission of instructor.* Study of major theories of narrative film and related media; specific theories examined will include formalist, auteurist, historical, structuralist, psychoanalytical, and political. Will include viewing of selected films. Equivalent to FILM 466.

ENG 467. VISITING WRITER SUMMER WORKSHOP. (3) *Prerequisites: At least one creative writing class beyond ENG 203 Creative Writing and instructor permission required.* Advanced creating writing workshop. Offered for four weeks each summer by a visiting writing of national reputation. Alternating genres. May be repeated once if different genre.

ENG 468. EARLY MODERN ENGLISH LITERATURE. (3) *Prerequisite: Colonnade Category F-AH.* A study of selected literary works from sixteenth- and seventeenth-century England, with attention to the historical, theoretical, and aesthetic conditions that shaped the imaginative development of English literature.

ENG 469. SECOND LANGUAGE ACQUISITION THEORY. (3) *Prerequisite: One linguistics course.* An introduction to theories, methods, and materials for teaching English as a second or foreign language.

ENG 470. METHODS AND MATERIALS FOR TEACHING ENGLISH AS A SECOND LANGUAGE. (3) *Prerequisites: ENG 469 or 469G and one linguistics course.* Selecting and evaluating commercially-prepared materials and developing teacher-made materials for Teaching English as a Second Language (TESL).

ENG 471. TEACHING ENGLISH AS A SECOND LANGUAGE PRACTICUM. (4) *Prerequisites: ENG 407, 408, 469, 470 and permission of the instructor.* Supervised observation and instruction in public schools or other appropriate settings, culminating in the production of a portfolio. Students are responsible for arranging their own transportation to designated or assigned sites. The class consists of 30 clock teaching hours and 15 classroom hours.

ENG 474. ADVANCED POETRY WRITING. (3) *Prerequisite: ENG 305 or equivalent.* An advanced, intensive course in the writing of poetry, emphasizing the practice and prevalent theories of contemporary poets.

ENG 475. ADVANCED FICTION WORKSHOP. (3) *Prerequisite: ENG 303 or equivalent.* An advanced and intensive course exploring the techniques of writing fiction, emphasizing contemporary theory and practice.

ENG 476. CRITICAL APPROACHES TO LITERATURE IN THE SECONDARY CURRICULUM. (3) *Prerequisites: At least two 300- or 400-level literature courses.* For English for Secondary Teachers majors, this course surveys texts frequently presented in secondary classes — including widely anthologized short stories, drama, and poetry; classic novels; and contemporary young adult literature—and examines considerations of text selection and presentation.

ENG 481. CHAUCER. (3) *Prerequisites: Colonnade Category F-AH.* Representative works of Chaucer, with emphasis on the Canterbury Tales; some attention to the medieval background.

ENG 482. SHAKESPEARE. (3) *Prerequisites: Colonnade Category F-AH.* A study of selected works by Shakespeare, situating them in their cultural moments and considering what has made them so durable, adaptable, deeply familiar, and popular in successive generations.

ENG 484. BRITISH ROMANTICISM. (3) *Prerequisites: Colonnade Category F-AH.* British literature and culture from the late 18th and early 19th centuries.

ENG 486. THE EIGHTEENTH CENTURY. (3) *Prerequisites: Colonnade Category F-AH.* The concentrated study of eighteenth century literature, forms, and developments.

ENG 487. DANTE'S *DIVINE COMEDY* AND ITS INFLUENCES. (3) *Prerequisites: Colonnade Category F-AH.* An intensive study of *The Divine Comedy,* in English translation, along with Dante's major sources and analogues.

ENG 488. VICTORIAN LITERATURE AND CULTURE. (3) *Prerequisites: Colonnade Category F-AH.* Studies in Victorian poets and novelists, emphasizing the rise and fall of the British Empire and the birth of mass media.

ENG 489. THE BRITISH NOVEL. (3) *Prerequisites Colonnade Category F-AH.* A comprehensive exploration of English-language novels, from the Mother Country to the Colonies. Emphasis on genre development as a reflection of contemporary history..

ENG 490. THE AMERICAN NOVEL. (3) *Prerequisites: Colonnade Category F-AH.* Study of the American novel as a genre. Topic will vary by semester..

ENG 492. SENIOR SEMINAR. (1) *Prerequisites: ENG 299 and senior standing.* In the Senior Seminar students will synthesize and assess what they have learned over the course of the English major by reviewing the discipline of English, exploring career and graduate studies opportunities, and collecting and revising selected major projects from previous classes.

ENG 493. AMERICAN POETRY. (3) *Prerequisites: Colonnade Category F-AH.* The course examines, in addition to major writers, selected major movements and schools in American poetry, paying special attention to influences, techniques, and styles.

ENG 495. SOUTHERN LITERATURE. (3) *Prerequisites: Colonnade Category F-AH.* Selected texts by writers from and about the United States South.

ENG 497. WOMEN'S LITERATURE. (3) *Prerequisites: Colonnade Category F-AH..* Study of the literary history, criticism, and theory of women's writing, with an emphasis on American and British writers..

ENG 499. DIRECTED STUDY IN ENGLISH. (3) *Prerequisites: 3.0 grade point average; senior standing.* A study of a specific literary or linguistic topic directed by a faculty member.

ENGR – ENGINEERING
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

ENGR 175. UNIVERSITY EXPERIENCE-- ENGINEERING. (1) *Prerequisite: MATH 116 or eligibility for higher math course.* For beginning college freshmen or transfer students with fewer than 24 semester hours of credit. Topics include study skills, critical thinking, information literacy, exploration of engineering majors and careers, campus resources, effective teamwork skills, and basic computer tools regularly used by engineering students. Engineering design processes and practices introduced.

ENGR 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or Ogden College faculty member recommendation.* To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, topic, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count towards any major or minor.) Equivalent to BIOL 295, CHEM 295, CS 295, GEOL 295, MATH 295, and PHYS 295.

ENGR 360. MODELING AND SIMULATION OF DYNAMIC SYSTEMS. (3) *Prerequisite: EE 210, and MATH 331. Prerequisite / Corequisite: MATH 307 or MATH 370.* This course presents an introduction to mathematical modeling of dynamic systems. It takes a unified approach to linear system modeling with lumped parameters for various physical systems in both time and frequency domains. An introduction to system identification will be also presented.

ENGR 400. PRINCIPLES OF SYSTEMS ENGINEERING. (3) *Prerequisites: Junior standing in an engineering discipline; and STAT 301 or CE 305, and EE 210 or EM 221 or EM 222..* An overview of the field and relevant principles of systems engineering. Topics will prepare students to apply systems engineering theory to the solution of complex system-based engineering problems.

ENGR 490. SENIOR SEMINAR. (2) *Prerequisites: Senior standing in an engineering discipline and consent of instructor.* Seminar course focused on professional topics including project management and the proposal for a multidisciplinary engineering capstone project.

ENGR 491. SENIOR PROJECT. (3) *Prerequisites: ENGR 490.* Work in multidisciplinary student teams to execute project designed during ENGR 490. Must be taken in the semester immediately following ENGR 490.

ENT – ENTREPRENEURSHIP
DEPARTMENT OF MANAGEMENT

ENT 112. INTRODUCTION TO ENTREPRENEURSHIP. (3) An introduction to and an exploration in the study of entrepreneurship. Topics include identifying new business opportunities and access to resources, start-up process, and careers. Readings and hand-on business projects appropriate for an introductory course are used.

ENT 308. INNOVATION MANAGEMENT. (3) *Prerequisite: Junior standing.* A study of innovation identification, capitalization and industry dynamics in entrepreneurial and intrapreneurial contexts. ***Course Fee***

ENT 312. ENTREPRENEURSHIP. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Examines the entrepreneur as the basic building block of the economic system via the discovery or identification of opportunities. Emphasis is placed on identifying and defending feasible opportunities within the industry and market, while recognizing and managing the complex systems in which entrepreneurs live and work that motivate or constrain innovation. ***Course Fee | Colonnade K-SY***

ENT 363. FAMILY BUSINESS MANAGEMENT. (3) *Prerequisite: Junior standing.* An exploration of the unique managerial issues, dynamics and competitive positioning, and contribution to the economy associated with family businesses. Emphasis placed on problems in organization, management, and succession in family business contexts. Open to business and non-business majors. ***Course Fee***

ENT 380. NEW VENTURE BUSINESS PLANNING. (3) *Prerequisite: ENT 312 or permission of instructor.* An in-depth analysis of business planning. The purpose and components of business plans and feasibility analyses are presented. Students prepare a written plan for venture, whether for or not-for profit. Students are strongly encouraged to enter the course with an idea for a venture. ***Course Fee***

ENT 410. SENIOR SEMINAR-ENTREPRENEURSHIP. (3) *Prerequisite: Senior standing.* A special topics course covering subjects of current interest in entrepreneurship. Class format varies with instructor. Can be repeated for a total of up to nine hours. ***Course Fee***

ENT 425. INTERNATIONAL ENTREPRENEURSHIP. (3) *Prerequisite: MGT 303 or ENT 312.* An introduction to the competitive global economy and entrepreneurship in the international context. Students develop an understanding of the entrepreneurial climate across countries and how to become more competitive in the global context. ***Course Fee***

ENT 463. SMALL BUSINESS MANAGEMENT. (3) *Prerequisites: ECON 150 or ECON 202 or ECON 203, ACCT 200, MKT 220 and ENT 312.* Provides a basic understanding of how to manage an ongoing small business and aids in the development of managerial skills necessary to operate small businesses. ***Course Fee***

ENT 490. PRACTICUM IN ENTREPRENEURSHIP. (3) *Prerequisites: ENT 312, junior standing, 2.5 cumulative GPA, and permission of the management chair and instructor.* Includes internships, independent studies, and special projects of interest in the entrepreneurship area. May include individual research projects as well as internships in profit or not-for profit organizations with duties relating to entrepreneurship. Projects must be approved by the Management Chair. ***Course Fee***

ENT 496. SMALL BUSINESS ANALYSIS AND STRATEGY. (3) *Prerequisites: Senior standing and CIS 243, FIN 330, MGT 210, MGT 314, MKT 220.* Opportunities for students to act in a management consultant relationship with selected small / medium regional entrepreneurial organizations, firms. Overall strategy and policy issues are emphasized. ***Course Fee***

ENV – ENVIRONMENTAL SCIENCE
DEPARTMENT OF PUBLIC HEALTH

ENV 120. INTRODUCTION TO OCCUPATIONAL SAFETY AND HEALTH. (3) An introduction to the principles of occupational safety and health. A survey course covering the basic principles and techniques of accident investigation and prevention. Includes field trips.

ENV 221. SAFETY AND HEALTH STANDARDS, CODES, AND REGULATIONS. (3) *Prerequisite: ENV 120 or permission of instructor.* A review of the important occupational safety and health standards and codes with particular emphasis on application of these codes to typical work situations. Includes field trips.

ENV 280. INTRODUCTION TO ENVIRONMENTAL SCIENCE. (3) An introductory course devoted to the study of environmental issues. A general understanding of the application of science to solve contemporary environmental challenges. Equivalent to PH 280. ***Colonnade E-NS | NS***

ENV 321. FUNDAMENTALS OF INDUSTRIAL HYGIENE. (3) *Prerequisites: MATH 117 or higher and CHEM 105 / 106 or higher or permission of instructor. Corequisite: ENV 323.* A basic introduction to the field of industrial hygiene. A survey of the effects of toxic agents on the body and general methods of control. Includes field trips.

ENV 322. PHYSICAL HAZARDS RECOGNITION AND CONTROL I. (3) *Prerequisite: ENV 221 or permission of instructor.* An examination of physical hazards in the work environment and methods of recognition and control. Includes field trips.

ENV 323. FUNDAMENTALS OF INDUSTRIAL HYGIENE LABORATORY. (1) *Corequisite: ENV 321.* Examines basic industrial hygiene sampling, measurement and analytical techniques. Laboratory exercises will include airflow calibration standards, procedures for calibration of personal sampling pumps, instrumentation and indoor air quality monitoring methodology. ***Course Fee***

ENV 360. AIR POLLUTION CONTROL. (3) *Prerequisites: CHEM 107 / 108 and MATH 118 or higher.* Examines air pollution sources, nature and behavior of air pollutants, air sampling and analysis, dispersion and diffusion in the atmosphere, air pollution meteorology, and methods and equipment for community air pollution control. Topics in indoor air quality (IAQ), modeling, and prediction, air quality control regulations, control strategies for stationary and mobile sources.

ENV 365. AIR POLLUTION CONTROL LABORATORY. (1) *Corequisite: ENV 360.* Provides hands-on experience with field instrumentation and equipment, calibration methods and quantitative determination of different physical and chemical air pollutants. Examines air sampling, measurement and analytical methodologies and basic scientific and analytical techniques used in air pollution control.

ENV 375. INTRODUCTION TO WATER RESOURCES. (3) Recent advances and the present state of water resources; water resources planning and development; management and administration. Priorities in water resources research. Selected case histories.

ENV 380. PRINCIPLES OF ENVIRONMENTAL TOXICOLOGY. (3) *Prerequisites: CHEM 105 / 106, MATH 118 or higher, and ENV 280.* An overview of the principles of environmental toxicology. Reviews the effects of environmental toxicants in relation to ecosystems and human health and provides an overview of techniques used in assessing the presence and distribution of environmental toxicants.

ENV 410. WATER TREATMENT PROCESSES. (3) *Prerequisites: CHEM 107 / 108 and MATH 118 or higher.* Determination of water quality characteristics pertinent to water and waste-water treatment.

ENV 411. WATER TREATMENT PROCESSES LABORATORY. (1) *Prerequisite: ENV 375. Corequisite: ENV 410.* Application of water treatment processes in a laboratory. Topics will include water quality measurements, water treatment methods and monitoring. ***Course Fee***

ENV 423. SAFETY PROGRAM MANAGEMENT. (3) *Prerequisites: ENV 321 and 322, or permission of instructor.* Acquaints students with the common elements of a modern safety program.

ENV 430. RADIOLOGICAL HEALTH. (3) *Prerequisite: PHYS 332. Corequisite: ENV 435.* Fundamentals of detection of ionizing radiation, radiation interaction, with matter biological effects radiation dosimetry and radiation protection concepts.

ENV 435. RADIOLOGICAL HEALTH LABORATORY. (1) *Corequisite: ENV 430.* A laboratory course correlated with ENV 430. Two laboratory hours per week.

ENV 460. ENVIRONMENTAL MANAGEMENT. (3) *Prerequisites or corequisites: ENV 360, 410, and 480.* Provides students with a working knowledge of environmental management techniques, standards, permitting and programs that are used to protect our air, water and land resources. Off-campus travel is required. Students are responsible for arranging for their own transportation to designated sites.

ENV 474. ENVIRONMENTAL RISK ASSESSMENT. (3) *Prerequisites: ENV 321 and 380.* Develops both qualitative and quantitative skills in assessing the health risk of exposure to hazardous environmental agents. Topics include risk prioritization approaches and exposure monitoring strategies. Laboratory sessions focus on the application of risk assessment software tools and include a field project. Off-campus travel is required. Students are responsible for arranging their own transportation to designated sites.

ENV 475. SELECTED TOPICS IN ENV. (1-3) *Prerequisite: Permission of instructor.* A consideration of special topics to acquaint the advanced student with significant problems and developments of current interest in environmental technology. Topics to vary each semester offered. Field trips as appropriate.

ENV 480. HAZARDOUS AND SOLID WASTE MANAGEMENT. (3) *Prerequisites: CHEM 107 / 108 and MATH 118 or higher.* Includes the physical, chemical, and biological stressors associated with both hazardous and solid waste. Emphasis on characterization and remediation efforts.

ENV 485. EDUCATIONAL EXPERIENCES IN OCCUPATIONAL SAFETY AND HEALTH. (3) *Prerequisite: Permission of instructor.* Special collection of selected short courses with content focused in the area of occupational safety and health. Instruction provided by outside agencies including the Kentucky Labor Cabinet, the Kentucky Regional Technology Center, and the North Carolina National Institute for Occupational Safety and Health Educational Resource Center. Total instruction time approximately 160 hours. (Grading: Pass / Fail)

ENV 486. SENIOR ENVIRONMENTAL HEALTH SEMINAR. (1) *Prerequisite: Senior standing.* Current environmental health issues discussed, including identification of possible careers in environmental health fields.

ENV 490. FOOD SAFETY. (3) *Prerequisite: 6 hours of Biology.* Principles of food safety in the processing and distribution of milk and milk products, meat, shellfish and other foods, food borne illnesses and sanitation standards, surveillance and evaluation. Off-campus travel is required. Students must arrange own transportation for required field trips.

ENV 491. INTERNSHIP IN ENVIRONMENTAL, HEALTH, AND SAFETY. (3 OR 6). *Prerequisite: Permission of instructor.* Supervised experience in an organization, facility, industry, or business with ENV responsibilities. Assignments individually arranged. Off-campus travel required. (Grading: Pass / Fail)

ENV 495. ENVIRONMENTAL MEASUREMENT. (3) *Prerequisites: ENV 280, 360, 410, 480.* Includes environmental measurement methods for air, soils, and water analysis. Devices covered include: AA, GC / MS, XRF, PID, SEM, colorimetric tubes, and water quality instruments.

EXS – EXERCISE SCIENCE
SCHOOL OF KINESIOLOGY, RECREATION, AND SPORT

EXS 122. FOUNDATIONS OF KINESIOLOGY. (3) An introductory study of the historical, philosophical, and scientific foundations of kinesiology; aspects of physical education, exercise science, and sport will be covered. Equivalent to PE 122.

EXS 223. INTRODUCTION TO EXERCISE SCIENCE. (3) *Prerequisite: Declared Exercise Science major.* Introduction to the different areas of study contained within the field of exercise science. Students will be introduced to the application of exercise science to fitness, health, and disease. They will also be introduced to field and laboratory measurement techniques.

EXS 296. PRACTICUM IN EXERCISE SCIENCE. (3) *Prerequisites or corequisite: EXS 223 and a declared Exercise Science major.* Work experience in Exercise Science practical settings in progression towards completion of the major. Liability insurance required. Must be repeated for a maximum of 4 hours taken twice with each practicum experience in a different subfield of Exercise Science.

EXS 310. KINESIOLOGY. (3) *Prerequisite: BIOL 131.* Study of the anatomical, mechanical, and neuromuscular bases of human movement.

EXS 311. PHYSIOLOGY OF EXERCISE. (3) *Prerequisites: BIOL 131 and EXS 223 or permission of instructor.* A systemic study of the acute and chronic effects of exercise on the physiological function of the human body.

EXS 312. BASIC ATHLETIC TRAINING. (3) *Prerequisites: PE 311 or EXS 311 and junior status. A* study of the basic principles of athletic training including prevention, evaluation, care, and rehabilitation of athletic injuries. Equivalent to PE 312.

EXS 313. MOTOR LEARNING AND CONTROL. (3) *Prerequisites: MATH 116 and EXS 223 and declared Exercise Science major and junior standing. Designed* to help build a foundation of knowledge and practice in the theoretical and conceptual basis behind human acquisition and performance of motor skills. The goal of the course is to understand how the individual, motor skill, and environment work together when learning novel or improving previously learned motor skills.

EXS 324. MEASUREMENT AND EVALUATION IN KINESIOLOGY. (3*) Prerequisites: MATH 116 and EXS 223 and declared Exercise Science major and junior standing.* A study of measurement tools and evaluation procedures used in the fields associated with kinesiology, including physical education, exercise science, and biomechanics.

EXS 325. APPLIED EXERCISE PHYSIOLOGY. (3) *Prerequisites: EXS 311 and CHEM 109 or higher and declared Exercise Science major.* Applied concepts introduced in exercise physiology and kinesiology. Aspects of the human body's reaction to differing exercise stressors. Emphasis on metabolic, musculoskeletal, and cardiorespiratory systems. Laboratory and field experience applying theoretical concepts of exercise physiology and kinesiology. Students will be responsible for their own transportation to designated or assigned sites. ***Course Fee***

EXS 412. EXERCISE TESTING & PRESCRIPTION. (0-4) *Prerequisites: EXS 311 and declared Exercise Science major.* Study and field experience in developing principles and practices of physical fitness in the private and corporate sector for the general population and special populations. Students must provide their own transportation to designated or assigned sites. ***Course fee***

EXS 420. CLINICAL EXERCISE PHYSIOLOGY. (0-4) *Prerequisites: EXS 325; declared Exercise Science major.* Principles of the clinical aspects of exercise physiology. Focuses primarily on the use of exercise in the treatment and diagnosis of various disease states, screening and risk stratification, and the ability to recognize and respond to emergency procedures. ***Course fee***

EXS 425. EXERCISE BIOENERGETICS. (3) *Prerequisites: CHEM 109 or higher and EXS 325 and declared Exercise Science major.* Study of exercise metabolism during physical activity. Includes metabolic utilization of carbohydrates, fats, and proteins during anaerobic and aerobic exercise.

EXS 436. PRINCIPLES OF STRENGTH AND CONDITIONING. (3) *Prerequisites: EXS 325 and declared Exercise Science major.* Designed to develop knowledge of principles and practices in components of strength and condition. The aim of the course is to understand the process behind development, implementation, and evaluation of strength and conditional programs for elite, collegiate, high school, and/or recreational athletic populations.

EXS 446. BIOMECHANICS. (0-4) *Prerequisites: BIOL 131 and MATH 116 and declared Exercise Science major and senior status.* Designed to help build a foundation of knowledge and practice in the theoretical and conceptual basis of human movement. The goal of the course is to understand the influence of rigid-body mechanics on human movement and how manipulations of mechanical factors alter human movement. The secondary goal is to learn to quantitatively analyze human movement.

EXS 455. EXERCISE AND AGING. (3) *Prerequisite: GERO 100 or EXS 223.* Designed for students to gain a better understanding of the acute physiological responses and chronic adaptations associated with exercise in the aged population and the role of exercise in the aging process. Specific attention will be given to the mitigating role of exercise in certain diseases and disorders.

EXS 456. INDIVIDUAL ADVANCED STUDIES IN KINESIOLOGY. (3) Specific and detailed analysis of practical problem areas in Kinesiology. Equivalent to PE 456.

EXS 485. EXERCISE SCIENCE STUDY ABROAD. (1-3) *Prerequisites: Must be in good standing, and obtain approval from the instructor.* An exploration of the international offerings pertaining to the study of exercise science and sports medicine. Study abroad courses require travel to various international locations. Specific course offerings will be announced prior to the semester in which travel occurs. May be repeated for a maximum of six hours.

EXS 496. INTERNSHIP IN EXERCISE SCIENCE. (6) *Prerequisites: EXS 296 and EXS 412 (pre or corequisite) and declared Exercise Science major and minimum cumulative GPA of 2.5 at the time of registration for EXS 496.* Comprehensive practical experience in a selected Exercise Science environment. Development of practical skills with on-the-job experience. Students will be responsible for their own transportation to designated or assigned sites.

EXS 498. CAPSTONE RESEARCH EXPERIENCE IN EXERCISE SCIENCE. (6) *Prerequisites: EXS 325, 412, senior standing, declared exercise science major and minimum cumulative GPA of 2.5 at time of registration, and permission of instructor.* This course is designed to allow students who have a strong interest in the research process, and who intend to pursue graduate studies in exercise physiology or a related discipline, to gain valuable laboratory experience by working directly with an exercise science faculty member on a semester-long research project. Students may take this course in place of completing an internship.

FACS– Family And Consumer Sciences
Department of Applied Human Sciences (FACS)

FACS 180. FOUNDATIONS IN FAMILY AND CONSUMER SCIENCES. (3) Overview of interdisciplinary field of family and consumer sciences, including professional organizations and philosophy of education and service. Emphasizes the culture of the scholar.

FACS 191. CHILD DEVELOPMENT. (3) Study of the prenatal and postnatal factors that influence the physical, cognitive, language, social and emotional development of children. Implications and applications of concepts learned are stressed. Practical experiences provided in a field setting; students are responsible for arranging their own transportation.

FACS 192. WORKING WITH YOUNG CHILDREN AND FAMILIES. (3) An introductory course for persons interested in providing services for infants, toddlers, and preschool-age children, both with and without disabilities, and their families. Practical experiences provided in a field setting; students are responsible for providing their own transportation.

FACS 193. CURRICULUM DEVELOPMENT FOR YOUNG CHILDREN. (3) *Prerequisites/corequisite: FACS 191 or instructor permission.* Overview of curriculum and activities that are developmentally appropriate for diverse groups or individual children. Practical experiences provided in a field setting; students are responsible for providing their own transportation.

FACS 198. GUIDANCE AND PROBLEM-SOLVING APPROACHES FOR YOUNG CHILDREN. (3) *Prerequisite: FACS 191 or permission of instructor.* Examines developmentally appropriate guidance and problem-solving approaches for young children based on theoretical and evidence-based practices. Child-centered approaches for addressing typical problems found in early childhood settings will be addressed. Field hours are required; students are responsible for their own transportation.

FACS 281. DESIGN FOUNDATIONS FOR FAMILY AND CONSUMER SCIENCES EDUCATION. (3) The application of design principles and elements as related to FCS state and national standards. Students will utilize technology in the application of design in projects suitable for middle and high school students. Field experiences at student's expense.

FACS 282. INTRODUCTION TO FAMILY AND CONSUMER SCIENCES EDUCATION. (3) Introduction to the profession of Family and Consumer Sciences Education including examination of the role, responsibility and dispositions of effective teachers, characteristics of the teaching / learning environment and introductory methods. Participation in youth organizations and professional organizations will be included. Observations and Praxis Exam at student expense.

FACS 292. DIVERSITY IN EARLY CHILDHOOD PROGRAMS. (3) *Prerequisite: FACS 191 or instructor permission.* This course focuses on developing and enhancing the knowledge and skills to work with children and families from diverse developmental, cultural, racial, and socio-economic backgrounds. The exploration of the challenges families face in living in a diverse society and who have a child with special needs will also be reviewed. Implications of diversity for practice with various populations are emphasized throughout the course. Influential theories and relevant research for professionals working with young children and families are discussed.

FACS 294. ASSESSMENT OF YOUNG CHILDREN. (3) *Prerequisite: FACS 191 or instructor permission.* Overview of the assessment process, preliminary assessment skills, and using assessment results in planning for guidance / instruction of young children. Roles of the family in the assessment process emphasized. Practical experiences provided in a field setting; students are responsible for arranging their own transportation.

FACS 297. FAMILY, COMMUNITY AND EARLY CHILDHOOD PROGRAM. (3) An introduction to the skills and appropriate techniques of establishing positive relationships with families of young children and involving them in the early childhood program planning, implementation, and evaluation. Skills and techniques for building community partnerships and advocating for young children are addressed. Practical experiences provided in a field setting. Students are responsible for providing their own transportation.

FACS 299. ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS. (3) *Prerequisite / corequisite: FACS 294 or permission of instructor.* Principles and practices in organization and management of developmentally appropriate early childhood programs. Includes managing physical, personnel, fiscal, curricular, agency, community, and family resources. At least 12 field-based hours will be required in addition to regular course meetings. Students are responsible for arranging their own transportation.

FACS 310. MANAGEMENT OF FAMILY RESOURCES. (3) Study of consumer and marketplace interactions in the purchase of goods and services. Decision-making processes are applied to individual and family resources for achieving maximum personal satisfaction.

FACS 311. FAMILY RELATIONS. (3) *Prerequisite: Junior standing.* Study of issues affecting individual and family well-being. Interpersonal relationships and communication skills necessary to achieve quality of life are addressed.

FACS 312. PROFESSIONAL ETHICS FOR FAMILY LIFE. (3) Exploration of professional and family ethical codes of conduct, dilemmas and moral decisions. Real life application using ethical decision-making, problem-solving, and critical thinking for interacting within family relationships and human services professions.

FACS 313. PRACTICUM IN HUMAN ENVIRONMENT. (3) Supervised work experience for a fixed period of time. Students perform professional functions with a pre-approved, cooperating organization. Field experience.

FACS 335. INFANT/TODDLER DEVELOPMENT AND CURRICULUM. (3) *Prerequisite: FACS 193 or instructor permission.* Study of infant and toddler physical, cognitive, language, and social/emotional development. Application of child development to developmentally appropriate curriculum, classroom, and teaching practices. Practical experiences in a field setting; students are responsible for providing their own transportation.

FACS 336. PRESCHOOL AND KINDERGARTEN CHILD DEVELOPMENT AND CURRICULUM. (3) *Prerequisite: FACS 193 or instructor permission.* Study of early childhood (preschool and kindergarten) physical, cognitive, language, and social/emotional development. Application of child development to developmentally appropriate curriculum, classroom and teaching practices. Practical experiences in a field setting; students are responsible for providing their own transportation.

FACS 380. PROFESSIONAL PRESENTATION TECHNIQUES IN FAMILY AND CONSUMER SCIENCES. (3) *Prerequisite: Major or minor in Family and Consumer Sciences.* Study of organization, development, delivery and evaluation of various presentation and demonstration techniques, including technology, as they relate to all areas of family and consumer sciences. Field trips at student's expense.

FACS 381. METHODS AND MATERIALS IN FAMILY AND CONSUMER SCIENCES EDUCATION. (3) *Prerequisites: FACS 380 and MGE 275 and proof of passing Praxis Core for FACS Education major or consent of instructor.* A study of family and consumer sciences curriculum patterns including objectives, methods of planning and presentation, laboratory organization, home and community projects, instructional materials, evaluation, and federal and state legislation for vocational education and family and consumer sciences.

FACS 391. RISK AND RESILIENCE. (3) *Prerequisite: FACS 191 or permission of instructor.* Focuses on the development of social and emotional skills as they relate to resilience in children. Risk factors will be explored. Field experience will be required. Students are responsible for their own transportation.

FACS 393. ROLE OF PLAY IN CHILD DEVELOPMENT. (3) *Prerequisite: FACS 191.* Theoretical and empirical perspectives connecting play to children's learning and development will be examined. Students will examine the role of play in relation to brain development.

FACS 395. CHILD AND FAMILY STRESS. (3) *Prerequisite: Junior standing or permission of instructor.* Acquaint students with major concepts from the research and conceptual literature on family stress and resilience. Examines stress as experienced and perceived by children and their families. Factors that influence children's coping with stress are emphasized.

FACS 396. ADOPTION THEORIES AND RESEARCH. (3) *Prerequisite: Junior standing.* Review of theories and research underlying practice with families and children who have been adopted. Offers an understanding of challenges, risks, and opportunities related to adoptive and birth families. Types and critical issues of adoption will be reviewed.

FACS 399. IMPLICATIONS OF RESEARCH IN FAMILY AND CHILD STUDIES. (3) *Prerequisite: Junior standing or higher.* Explores the processes and implications of research related to family and child studies. Students will gain understanding and develop skills needed to be consumers of scientific literature.

FACS 410. INTERNSHIP. (1-9) *Prerequisites: Senior standing and all required 300-level courses in the major.* Application of knowledge and skills in a supervised experience. Students perform professional functions in an appropriate establishment. (Note: Application must be submitted to coordinator of the Internship Program one complete semester prior to the semester a student plans to do the practicum. A 2.5 grade point average in professional courses is required for eligibility.) Repeatable to maximum of 6 hours.

FACS 411. SPECIAL TOPICS IN CONSUMER AND FAMILY SCIENCE. (1-3) *Prerequisite: Approval of the head of the department.* Individual investigation of problems selected from an area of specialization within the department. Repeatable for credit.

FACS 422. ADOLESCENT PSYCHOLOGY. (3) *Prerequisites: PSY 100 or FACS 191 and junior standing or permission of the instructor.* Introduction to behavior and development from early adolescence to adulthood, emphasizing a critical review of research and literature. Equivalent to PSY 422.

FACS 481. ADVANCED METHODS IN FAMILY AND CONSUMER SCIENCES EDUCATION. (3) *Prerequisites: (a.) Senior standing and (b.) FACS 381 or consent of instructor.* A study of the background and trends in education for improving family and consumer sciences. Career and Tech Ed training for high school youth and adults including an understanding of state and federal accountability requirements. Emphasis on working with persons with diverse backgrounds. Lecture. Field trips at student's expense.

FACS 482. RESOURCE MANAGEMENT FOR THE INDIVIDUAL AND FAMILY. (3) *Prerequisite: Junior standing in family and consumer sciences.* A study of the factors affecting the management of the home in meeting the needs of individuals and creating a satisfying environment for the family. Special consideration is given to those problems involving the use of time, energy, and money. Lecture—field trips at student's expense. Curriculum changes in process. See FCS advisor.

FACS 491. SEMINAR IN FAMILY ECONOMICS. (1) *Prerequisite: Senior standing.* Current literature in family and consumption economics are studied and discussed. Curriculum changes in process. See FCS advisor.

FACS 492. GROWTH AND GUIDANCE OF CHILDREN. (3) *Prerequisites: FACS 191 and PSY 100.* Study of the biological, physical, social-emotional, and cognitive needs of infants and school-aged children. The strategies by which these needs may be met within the family, the school, and other environments are discussed.

FACS 493. FAMILY LIFE EDUCATION. (3) Study of various perspectives of family life education, principles and practices, including program planning, implementation, and evaluation. Field experiences required at the student's expense.

FACS 494. PARENTING STRATEGIES. (3) Study of the major theoretical and practical approaches to effective parenting strategies within functional families. Emphasis is placed on practicing techniques and skills which are developmentally appropriate for different ages of children.

FACS 495. FAMILY AND RELATIONSHIP VIOLENCE. (3) *Prerequisite: One course in Human Development or Family Relations.* A study of the dynamics underlying interpersonal violence and theoretical perspectives regarding the etiology of violent behavior. Analysis of behaviors indicative of violent relationships and various treatment modalities as they are applied to individuals and families are emphasized.

FACS 496. ADDRESSING CHALLENGING BEHAVIOR IN YOUNG CHILDREN. (3) *Prerequisite: FACS 191 or instructor permission.* Examination of young children's challenging behaviors and strategies for developing behavior support plans across settings. Practical experiences in a field setting; students are responsible for providing their own transportation.

FACS 497. FAMILY HOME VISITING. (3) *Prerequisite: FACS 395 or FACS 494 or permission of instructor.* Focuses on the design, implementation, and effects of human service programs aimed at promoting service provision in a variety of settings. Review of best practice, policy and research with families and young children in natural environments. Field experience hours required. Student is responsible for transportation.

FACS 499. FAMILY POLICY ANALYSIS. (3) *Prerequisite: Senior-level standing.* An examination of the place of family and child studies in the context of broader themes, such as policy and varying social and economic climates. This course is designed to integrate research, theory, and practice, applying former education to a variety of family and child issues.

FILM
SCHOOL OF JOURNALISM & BROADCASTING

FILM 100. FILM INDUSTRY AND AESTHETICS. (3) *Prerequisite: Restricted to film majors.* Introduction to the film industry and aesthetics of cinematic visual storytelling, considered from both studio and independent practitioners" perspectives.

FILM 155. FILM ATTENDANCE. (0) *Prerequisite: Restricted to film majors.* Attendance at 8 film screenings or related events within one semester from a film program approved list. Grading: Pass / Fail.

FILM 201. INTRODUCTION TO THE CINEMA. (3) A study of the basic elements and techniques of the film medium, designed to increase the student's understanding and appreciation of the motion picture both as a communication medium and as an art form. A number of film masterpieces will be viewed and analyzed. Lecture and lab. ***Colonnade E-AH | AH***

FILM 202. BASIC FILM PRODUCTION. (3) *Prerequisites: FILM 100 and FILM 201.* I*ntroduction* to film production equipment and on-set crew positions. Practical, hands-on experience rotating through crew positions in a workshop setting. ***Course Fee***

FILM 250. SCREENWRITING. (3) *Prerequisites: FILM 201 or BCOM 325.* A concentrated study in the fundamentals of screenwriting for narrative film: conflict, character, structure, plot, dialogue, and subtext. Emphasis on visual storytelling through short screenplays. ***Course Fee***

FILM 282. FILM PRODUCTION WORKSHOP I. (3) *Prerequisites: FILM 202.* Intensive, hands-on workshop in the production of short-form cinema. Specific focus of study to be determined in consultation with instructor. Emphasis on techniques and strategies relevant to producing independent film and video. ***Course Fee***

ENG 359. TOPICS IN SCRIPTWRITING. (3) *Prerequisites: FILM 250; or ENG 203 or ENG 350, and permission of instructor.* Focuses on topics in scriptwriting including, but not limited to, writing for television (narrative), writing the genre feature, and writing for the stage. Emphasizes the practices of contemporary scriptwriters in various genres. *Repeatable once for a total of 6 credits.* Equivalent to ENG 359.

FILM 366. HISTORY OF NARRATIVE FILM. (3) *Prerequisites: Colonnade Category F-AH.* Examines the history and development of narrative film from the silent era to the present. Emphasis on specific narrative conventions of Hollywood cinema. Equivalent to ENG 366.

FILM 369. INTRODUCTION TO WORLD CINEMA. (3) *Prerequisite: FILM 201 or permission of instructor.* Examines cinema in several regions including China, India, Europe, Middle East, Africa, and Latin America. Viewing of representative films accompanied by background readings on history / culture.

FILM 376. CINEMATOGRAPHY. (3) *Prerequisite: FILM 282 and BCOM 366.* A concentrated study in the fundamentals of cinematography: capture / presentation formats, lighting, camera, exposure, composition, and color grading. Emphasis on visual storytelling through short filmed projects. ***Course Fee***

FILM 377. FILM SOUND. (3) *Prerequisite: FILM 282 or BCOM 366.* A concentrated study in the fundamentals of audio for narrative film: properties of sound, field and studio recording, mixing, and audio post-production. Emphasis on audio / visual storytelling through short projects. ***Course Fee***

FILM 378. FILM DIRECTING. (3) *Prerequisites: FILM 250, FILM 282, PERF 101, and BCOM 366.* A concentrated study in the fundamentals of directing for narrative film: script analysis, casting, staging, working with actors, camerawork, editing. Emphasis on visual storytelling through short filmed projects. ***Course Fee***

FILM 379. FILM PRODUCING. (3) *Prerequisites: FILM 250, FILM 282, and BCOM 366.* A concentrated study in the fundamentals of producing for film: developing ideas, script evaluation, fundraising, budgeting, scheduling, and production management. Emphasis on creative and managerial skills through short projects.

FILM 382. FILM WORKSHOP II. (3) *Prerequisites: FILM 250 and FILM 282 and BCOM 366.* A continuation of the intensive, hands-on workshop experience begun in FILM 282. Specific focus of study to be determined in consultation with instructor. Emphasis on techniques and strategies relevant to producing independent short-form cinema. ***Course Fee***

FILM 399. SPECIAL TOPICS IN FILM. (3) A detailed study of special topics in film. May be repeated with change of content.

FILM 450. FEATURE WRITING. (3) *Prerequisite: FILM 250.* An advanced, intensive study of the techniques of screenwriting for feature films: outlines, treatments, character, act structure, subplots. Emphasis on visual storytelling through completion of a feature screenplay. ***Course Fee***

FILM 465. FILM GENRES. (3) *Prerequisites: ENG 100 and 200 and either FILM 201 or ENG 365, or instructor's permission.* Study of the historical development, thematic and stylistic conventions, and cultural significance of film genre(s). Surveys representative films from one or two genres, e.g., film noir and the Western; romantic comedy and family melodrama; horror and science fiction; the musical; the war film; the epic. May be taken twice as long as genres differ. Equivalent to ENG 465.

FILM 466. FILM THEORY. (3) *Prerequisites: FILM / ENG 366, ENG 365; FILM 201, or permission of instructor.* Study of major theories of narrative film and related media; specific theories examined will include formalist, auteurist, historical, structuralist, psychoanalytical, and political. Will include viewing of selected films. Equivalent to ENG 466.

FILM 469. TOPICS IN WORLD CINEMA. (3) *Prerequisite: FILM 369.* An advanced, in-depth study of world cinema. Subjects might include national cinemas, directors, or select genres, movements or periods. Viewings of representative films will be accompanied by readings on history / culture.

FILM 482. FILM WORKSHOP III. (3) *Prerequisites: FILM 376, 377, 378, and 379.* Senior-level practicum. Specific focus of study to be determined in consultation with instructor. Emphasis on film and video techniques and strategies learned across the entire program of study of the film major. May be repeated once for additional credit. ***Course Fee***

FILM 486. FILM STUDIES CAPSTONE. (3) *Prerequisite: Major in film and senior standing.* A senior capstone experience synthesizing and assessing the complete field of study for film majors. Emphasis on independent research and writing. Includes an exploration of career and graduate study opportunities as well as intensive research and analysis within a single area of film studies.

FIN / FINC – FINANCE
DEPARTMENT OF FINANCE (FIN)
SCHOOL OF PROFESSIONAL STUDIES (FINC)

FIN 161 / FINC 161C. PERSONAL FINANCE. (3) Designed to serve the personal finance needs of students regardless of their major fields. Practical applications in personal and family financial planning, including credit, buying, borrowing, banking, insurance, investments, taxation, estate planning and home ownership. ***Course Fee | Colonnade E-SB | SB***

FIN 300. CAREER READINESS IN FINANCE. (1) *Prerequisites: Completion of or current enrollment in FIN 330; junior standing and reference code 664 or 664P.* Introduction to preparation for a career in Finance including professional writing skills, professional resumes and cover letters; oral communications; interviewing skills; goal setting; ethical standards; and professional networking. This course is limited to juniors and seniors in the Finance program. Assignments may include travel. ***Course Fee***

FIN 330. PRINCIPLES OF FINANCE. (3) *Prerequisites: ACCT 200, MATH 123 or any calculus class or a Math ACT of at least 26 or a Math SAT of at least 310, and ECON 202 or 203..* Covers basic concepts and techniques in corporate finance and investments. Topics include asset valuation, time value of money, capital budgeting, financial statements and international finance. ***Course Fee***

FIN 331. APPLIED INVESTMENTS. (3) Covers the basics of investing, emphasizing the management of personal investments, such as stocks, bonds and mutual funds. Utilizes investment-related web sites. ***Course Fee***

FIN 332. INVESTMENT THEORY. (3) *Prerequisite: FIN 330.* An examination is made of investment institutions, market mechanics and investment media. The course deals with the setting of investment objectives, portfolio building and the problems of selection and timing. ***Course Fee***

FIN 350. RISK MANAGEMENT AND INSURANCE. (3) Fundamental principles of risk and insurance and their application to risk situations. Provides the basic knowledge for intelligent solution of personal and business risk problems. ***Course Fee***

FIN 370. PRINCIPLES OF REAL ESTATE. (3) *Prerequisite: FIN 330.* Deals generally with urban real estate with emphasis on principles and practices of the real estate business. ***Course Fee***

FIN 400. PERSONAL FINANCIAL PLANNING PRACTICE MANAGEMENT. (2) *Prerequisites: Completion of or current enrollment in FIN 331, FIN 332, and FIN 444 Restricted to B.S. Finance (Financial Planning track) majors and Financial Planning Certificate enrollees. Corequisite: FIN 401.* Counseling and communication techniques, as well as interviewing strategies for use in financial planning settings. Introduction to regulatory compliance as packages for financial planning and investment portfolio applications. Review of business models and staffing. ***Course Fee***

FIN 401. PERSONAL FINANCIAL PLANNING PRACTICE MANAGEMENT LAB. (1) *Prerequisites: Completion of or current enrollment in FIN 331, FIN 332, and FIN 444. Restricted to B.S. Finance (Financial Planning track) majors and Financial Planning Certificate enrollees. Corequisite: FIN 400.* A laboratory course correlated with FIN 400 for financial planning majors emphasizing the use of professional software packages for financial planning and investment management. ***Course Fee***

FIN 430. SELECTED TOPICS-FINANCE. (3) *Prerequisites: FIN 330 and permission of Instructor.* Conducted at selected times covering special topics of current interest to finance students. Class format varies with instructor. ***Course Fee***

FIN 433. FINANCIAL MARKETS AND INSTITUTIONS. (3) *Prerequisite: FIN 330.* An examination of the behavior of U.S. and world financial markets with a special emphasis on interest rate theories, funds flows, and the role of financial institutions in these markets. ***Course Fee***

FIN 435. COMMERCIAL BANK MANAGEMENT. (3) *Prerequisite: FIN 330.* Study of the financial management of commercial banks. Emphasis is on asset / liability management and the financial analysis of bank statements. ***Course Fee***

FIN 436. INTERNATIONAL FINANCIAL MANAGEMENT. (3) *Prerequisite: FIN 330.* An examination of the international dimension of corporate finance. Topics covered include environment of international financial management, foreign exchange risk management, foreign investment analysis, and financing foreign operations. ***Course Fee***

FIN 437. CORPORATE ASSET MANAGEMENT. (3) *Prerequisites: Completion of FIN 330 with a grade of "C" or better and completion of, or current enrollment in, ECON 307.* Advanced level exposure to valuation concepts, capital budgeting decisions, working capital management, and mergers and acquisitions. Deals with the current theory and practice of corporate finance in these areas. ***Course Fee***

FIN 438. CORPORATE FUNDS MANAGEMENT. (3) *Prerequisites: Completion of FIN 330 with a grade of "C" or better and completion of, or current enrollment in, ECON 307.* Advanced level exposure to financing and dividend policy, short-, intermediate-, and long-term financing, and financial statement analysis. Deals with the current theory and practice of corporate finance in these areas. ***Course Fee***

FIN 439. SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT. (3) *Prerequisite: FIN 332 with a grade of "C" or better.* An advanced level exposure to fixed income and equity security valuation, and the theory and practice of portfolio management. ***Course Fee***

FIN 440. INTERNSHIP IN FINANCE. (3) *Prerequisites: FIN 330 and admission to departmental cooperative program*. Supervised work with a cooperating organization that provides financial services and products to the public. (Grading: Pass / Fail) ***Course Fee***

FIN 441. ENTREPRENEURIAL FINANCE. (3) *Prerequisite: FIN 330.* This course focuses on gaining understanding of the financing of entrepreneurial ventures, including ways entrepreneurs identify and commit the necessary resources to create and finance their ventures. ***Course Fee***

FIN 444. RETIREMENT PLANNING. (3) *Prerequisite: FIN 330.* Emphasizes the practical knowledge needed for choosing the best financial plan and designing a retirement plan that will meet a client's needs from a tax, retirement, and financial planning standpoint. ***Course Fee***

FIN 445. ESTATE PLANNING. (3) *Prerequisite: FIN 330.* Survey of financial planning, estate and gift tax planning, the unified estate and gift tax system, and the transfer of property through trusts and wills. ***Course Fee***

FIN 449. PRACTICUM IN PORTFOLIO MANAGEMENT. (3) *Prerequisites: FIN 332 with a grade of "C" or better and permission of instructor.* Practical experience in managing an investment portfolio in a teamwork environment. Emphasis placed on Economics, Industry, and Company analysis, security selection, report preparation, daily decision making, record keeping and performance evaluation. Students will be responsible for making all material decisions in managing an actual investment portfolio of real funds. May be repeated for credit. ***Course Fee***

FIN 450. FINANCIAL PLAN DEVELOPMENT. (3) *Prerequisites: FIN 331, 332, 350, 444, 445, ACCT 330 (Courses may be taken concurrently with departmental approval).* The student will be able to demonstrate understanding of financial planning by successfully formulating and presenting a comprehensive financial plan. ***Course Fee***

FIN 499. SENIOR ASSESSMENT IN FINANCE. (0-1) *Prerequisites: Senior standing, enrolled in last regular semester of coursework (summer graduates would take this course in the spring semester prior to completion.)* This course is designed to be a tool in the senior assessment process. It is designed to provide a means of conducting assessment of Finance majors. The course will seek to measure knowledge of basic ideas and concepts necessary of Finance graduates. (Grading: Pass / Fail) ***Course Fee***

FLK– Folk Studies
Department of Folk Studies and Anthropology (FLK)

FLK 275. SUPERNATURAL FOLKLORE. (3) An investigation of traditional beliefs concerning unverifiable phenomena, including superstition, traditional healing, divination, and witchcraft. Current historical, philosophical, anthropological and folkloristic theories are covered.

FLK 276. INTRODUCTION TO FOLK STUDIES. (3) An introduction to the study of folk tradition in different contexts, focusing on the concepts of folk group, cultural relativism, fieldwork, meaning and function, and the genres of folk narrative, folksong, folk custom and traditional material culture. ***Colonnade E-AH | AH***

FLK 280. CULTURAL DIVERSITY IN THE U.S. (3) Understanding, interpretation and appreciation of the multicultural nature of American society. Emphasis on the varieties of cultural expression, custom and world view practiced by regional, ethnic, racial and sectarian cultures.

FLK 281. ROOTS OF SOUTHERN CULTURE. (3) Examination of Southern folklore and folklife as part of the foundation of contemporary Southern culture.

FLK 310. COMMUNITY TRADITIONS & GLOBAL CORPORATE CULTURE. (3) Multicultural study of community traditions and corporate culture in the global world.

FLK 330. CULTURAL CONNECTIONS AND DIVERSITY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Service learning course that examines the diversity of American culture and engages students in activities to develop skills in working with a variety of cultural groups. ***Colonnade K-SC***

FLK 340. PEOPLES AND CULTURES OF LATIN AMERICA. (3) Study of the history and development of present cultures in Latin America with emphasis on economics, politics, religion, folklife and world view of indigenous, peasant and urban peoples. Equivalent to ANTH 340.

FLK 341. PEOPLE AND CULTURES OF ASIA. (3) Study of the cultures of South, East, and Southeast Asia with emphasis on origins, prehistoric and historic migrations, ecology, and subsistence patterns, and the origins and evolution of the major civilizations of India, China, Japan, and Vietnam. Topics include kinship and the family, religion, social organization, gender, economy, colonialism and independence, globalization and development, and maintenance of traditions in modern contexts. Equivalent to ANTH 341.

FLK 342. PEOPLES AND CULTURES OF THE CARIBBEAN. (3) Examination of the variety of cultural practices and social conditions found in modern-day Caribbean societies with attention to historical roots. Topics include, but are not limited to, definition of the region, religious practices, festivals, musical traditions, migration, and everyday social life and conditions. Equivalent to ANTH 342.

FLK 345. PEOPLE AND CULTURES OF NATIVE NORTH AMERICA. (3) Survey of the cultures of the original peoples of North America, with emphasis on the ethnographic present. Equivalent to ANTH 345.

FLK 350. PEOPLES AND CULTURES OF AFRICA. (3) Survey of the cultures of Africa, with emphasis on historical development and contemporary cultural diversity. Equivalent to AFAM / ANTH 350.

FLK 371. URBAN FOLKLORE. (3) Varieties and characteristics of urban American folklore with emphasis on legends, customs, beliefs, and other lore of today's regional, occupational, and ethnic groups.

FLK 373. FOLKLORE AND THE MEDIA. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Variety and characteristics of folklore in the media including newspapers, television, magazines, comics, movies, photographs, cartoons, and advertisements. ***Colonnade K-LG***

FLK 377. AFRICAN-AMERICAN FOLKLORE. (3) Oral, written, and material folk traditions of African-Americans, with emphasis on the United States and the Caribbean. Equivalent to AFAM 377.

FLK 378. SOUTHERN APPALACHIAN FOLKLIFE. (3) Folklife of southern Appalachia, as reflected in the material folk culture, in traditional folk customs and practices, legends, anecdotes, songs, language, and literature. Equivalent to ANTH 378.

FLK 379. TOPICS IN FOLKLORE. (3) A consideration of special topics to acquaint students with significant problems and current issues in folklore. Content will vary from time to time according to the instructor and the needs of the students.

FLK 388. FOODWAYS. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Exploration of the relationship between food and culture. Equivalent to ANTH 388. ***Colonnade K-LG***

FLK 399. FIELD METHODS IN ETHNOGRAPHY. (3) An examination of the history, theory, techniques, and ethics of ethnographic fieldwork, including practical fieldwork experience. Equivalent to ANTH 399.

FLK 400. ETHNOMUSICOLOGY. (3) Survey of the concepts and methods of ethnomusicology. Topics include history of ethnomusicology, transcription and analysis, musicians, musical instruments, music acculturation, and the function of music in society. Equivalent to ANTH 400.

FLK 410. AFRICAN-AMERICAN MUSIC. (3) A survey of selected musical styles created and developed by African-Americans from the 17th to the 20th century: spirituals, blues, popular music forms (e.g., soul, reggae, rap music). Emphasis will be placed on the historical factors and sociocultural trends that influenced the development of African-American music. Equivalent to AFAM 410 and ANTH 410.

FLK 434. HISTORIC PRESERVATION. (3) (See GEOG – Geography and Geology.) Equivalent to GEOG 434.

FLK 445. AMERICAN ARCHITECTURAL HISTORY. (3) An interdisciplinary survey of American architectural history, including trends and styles, architect designed and manufactured structures and elements, and the social history of American architecture. Equivalent to ART 445.

FLK 462. FOLKLORE AND MEDICINE. (3) This course examines the role of traditional culture in shaping attitudes and behavior related to sickness, health, and healing. Institutional, alternative, and informal medical settings are discussed. Equivalent to PH 462.

FLK 464. VERNACULAR ARCHITECTURE. (3) The forms, functions, and styles of buildings constructed according to custom from local materials to meet individual and cultural preferences.

FLK 470. MUSEUM PROCEDURES AND PRESERVATION TECHNIQUES. (3) Essential aspects of museums and of preservation, i.e., collecting, preserving, researching, exhibiting, and interpreting material culture. Equivalent to ANTH 470.

FLK 478. FOLKLORE AND LITERATURE. (3) Readings in world literature from the Bible to the modern novel and examination of the degree to which oral literature has affected origins and development of written literature.

FLK 479. DIRECTED INDEPENDENT RESEARCH IN FOLKLORE. (3) Supervised individual study directed by a member of the Folk Studies faculty (course pass required)

FLK 480. WOMEN'S FOLKLIFE. (3) The various images and roles of women in the U.S. and selected world cultures as reflected in folklife materials such as narratives, beliefs, ballads, rhymes, games, customs, and folk arts.

FLK 489. INTERNSHIP IN FOLK STUDIES. (3) Practical out-of-classroom experience in a supervised work situation with a cooperating business, industry, social or governmental agency emphasizing application of advanced knowledge and skills in folk studies. (course pass required)

FREN– French
Department of Modern Languages (FREN)

FREN 100. FRENCH LANGUAGE AND CULTURE ON-SITE. (1-3) *Prerequisite: Permission of instructor.* An introduction to French and French-speaking culture in conjunction with study abroad for students with little or no previous language study. May be repeated for a total of three credits.

FREN 101. ELEMENTARY FRENCH I. (3) A beginning course designed to teach the four basic skills of understanding, speaking, reading and writing with emphasis on speaking and understanding as well as on cultural aspects of France and other French-speaking nations.

FREN 102. ELEMENTARY FRENCH II. (3) *Prerequisite: FREN 101 or demonstrated proficiency of Novice Mid.* Continuation of the development of the four basic skills and cultural insights. ***Course Fee | Fulfills World Language with a grade of C or better.***

FREN 105. INTRODUCTION TO FRENCH CULTURE. (3) Survey of contemporary culture of France, with emphasis on values, behavioral characteristics, social and political structures, and achievements of the French-speaking people. Taught in English; only taught abroad.

FREN 201. INTERMEDIATE FRENCH I. (3) *Prerequisite: FREN 102 or demonstrated proficiency of Novice Mid*. Expansion of grammatical knowledge and practice in oral and written expression. ***Fulfills World Language with a grade of C or better.***

FREN 202. INTERMEDIATE FRENCH II. (3) *Prerequisite: FREN 201 or demonstrated proficiency of Intermediate Low.* Continuation of oral and written practice, vocabulary building and introduction to the reading of literary or cultural texts. ***Fulfills World Language with a grade of C or better.***

FREN 210. INTERMEDIATE FRENCH CONVERSATION ABROAD. (1-3) *Prerequisite: FREN 102 or demonstrated proficiency of Novice High*. Course designed to develop the vocabulary and communication skills of a student with one year of college French or equivalent, with emphasis on contact with French native speakers. FREN 210 may not substitute for FREN 201 or 202, but may count as an elective for the major or minor. Taught in French. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

FREN 211. FRENCH CULTURE ABROAD. (1-3) *Prerequisite: FREN 102 or demonstrated proficiency of Novice High*. Course designed to develop an appreciation for different aspects of France and its people and culture, for a student with one year of college French or equivalent. FREN 211 may not substitute for FREN 201 or 202, but may count as an elective for the major or minor. Taught in French. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

FREN 306. EXPERIENCING FRENCH ABROAD. (1-6) *Prerequisites: FREN 202 or demonstrated proficiency of Intermediate Mid . Corequisite: Enrollment in supervised language study while abroad.* Supervised language and cultural studies accomplished during a study abroad program. Students who receive transferable credit for language study done during the study abroad program will receive credit only for cultural study. May be repeated once for a maximum of six hours of credit. ***Fulfills World Language with a grade of C or better.***

FREN 314. INTRODUCTION TO FRENCH LITERATURE. (3) *Prerequisite: FREN 202, or demonstrated proficiency of Intermediate Mid.* This course is intended to develop adequate reading skills to enable the student to succeed in literature courses. Texts from the theatre, poetry, short stories and selections from novels will be read. ***Fulfills World Language with a grade of C or better.***

FREN 320. FRENCH GRAMMAR AND COMPOSITION. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* A comprehensive study of French grammar based on classroom explanation and drill and written translation of texts especially prepared to illustrate grammar under discussion. ***Fulfills World Language with a grade of C or better.***

FREN 321. FRENCH CONVERSATION. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Exercises in pronunciation, comprehension and composition. Thorough review of language usage. Ample opportunity for conversation. Entirely in French. ***Fulfills World Language with a grade of C or better.***

FREN 322. TRANSLATION. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid*. A concentrated study of the intricacies and processes of translation work (both French to English and English to French) for literary and non-literary materials. ***Fulfills World Language with a grade of C or better.***

FREN 323. FRENCH CIVILIZATION AND CULTURE. (3) *Prerequisite: FREN 202 . or demonstrated proficiency of Intermediate Mid.* Readings, discussion, lectures, films, oral and written reports on different aspects of France and its people and culture. ***Fulfills World Language with a grade of C or better.***

FREN 325. SURVEY OF FRENCH LITERATURE I. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Reading of French literary texts representing the masterpieces of this important branch of French civilization; lectures on literary history and criticism. The period covered is from 842 AD to the end of the 18th century. ***Fulfills World Language with a grade of C or better.***

FREN 326. SURVEY OF FRENCH LITERATURE II. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Reading of French literary texts representing the masterpieces of this important branch of French civilization; lectures on literary history and criticism. The period covered is the 19th and 20th centuries. ***Fulfills World Language with a grade of C or better.***

FREN 328. FRENCH DICTION AND PRONUNCIATION. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Mastery of fluent French diction and pronunciation through intensive practice with sounds, stress, rhythm, linking, phrasing, and intonation. ***Fulfills World Language with a grade of C or better.***

FREN 331. BUSINESS FRENCH. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Introduction to business communication in the French speaking countries. Linguistic structures and vocabulary, forms of business communication, reading and discussion of business texts, social customs. ***Fulfills World Language with a grade of C or better.***

FREN 389. INTERNSHIP IN FRENCH. (1-3) *Prerequisites: FREN 202 or demonstrated proficiency of Intermediate Mid.* Supervised work using French in a professional setting. Open only to French majors or minors. May be repeated once for elective credit in the major or minor for a maximum of six hours. ***Fulfills World Language with a grade of C or better.***

FREN 420. ADVANCED FRENCH COMPOSITION AND STYLISTICS. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Creative self-expression in written French, refinement of grammatical understanding, introduction to the art of translation and an examination of selected texts to study stylistic devices. ***Fulfills World Language with a grade of C or better.***

FREN 421. ADVANCED FRENCH CONVERSATION. (3) *Prerequisite: FREN 202 or demonstrated proficiency of Intermediate Mid.* Free classroom discussion on assigned topics and reports on newspaper and magazine articles of current interest. Special attention will be paid to idiomatic expressions. ***Fulfills World Language with a grade of C or better.***

FREN 426. FRENCH LITERATURE OF THE TWENTIETH CENTURY. (3) *Prerequisite: FREN 314 or FREN 325 or FREN 326.* A study of the works of major French writers of the 20th century. ***Fulfills World Language with a grade of C or better.***

FREN 427. FRANCOPHONE CULTURE. (3) *Prerequisite: FREN 314 or higher or demonstrated proficiency of Intermediate Mid .* Course will cover all francophone countries (including France) and deal with various aspects of their culture: oral literature. ***Fulfills World Language with a grade of C or better.***

FREN 445. FRENCH CANADIAN LITERATURE. (3) *Prerequisites: FREN 314or FREN 321 or FREN 325 or FREN 326 or demonstrated proficiency of Intermediate Mid.* A survey of the Québécois novel, theatre and poetry through a selection of 19th and 20th century writers. ***Fulfills World Language with a grade of C or better.***

FREN 450. TOPICS IN FRANCOPHONE CINEMA. (3) *Prerequisites: FREN 314 or higher or demonstrated proficiency of Intermediate Mid.* Course examines the way Francophone film directors and social scientists look at various aspects of the most recent cinema: narrative structure, recurring patterns, relation of form to content and ideology. Taught in French. May be repeated once for credit. ***Fulfills World Language with a grade of C or better.***

FREN 499. ADVANCED STUDIES IN FRENCH. (1-4) *Prerequisites: Junior or senior standing and permission of instructor.* For guided independent study in culture, language, or literature. May be used with consent of full-time program faculty members for work accomplished during study abroad. Number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of six hours of credit. ***Fulfills World Language with a grade of C or better.***

GEOG– GEOGRAPHY
DEPARTMENT OF GEOGRAPHY AND GEOLOGY (GEOG)

PHYSICAL AND ENVIRONMENTAL GEOGRAPHY

GEOG 103. OUR DYNAMIC PLANET. (3) Introduction to the spatial dimension of Earth's dynamic systems and how they affect people. These include the atmosphere, hydrosphere, and lithosphere. Equivalent to GEOL 103. ***Colonnade E-NS | NS***

GEOG 175. UNIVERSITY EXPERIENCE-GEOGRAPHY. (2*) Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources and personal development. Special attention is given to educational requirements, careers and resources in the geosciences.

GEOG 210. ENVIRONMENT AND ECOLOGICAL POLICY. (3) A survey of the geography, history, and current conditions of environmental policy and regulation development, particularly in the United States, with an emphasis on humans as an integral component of the natural environment.

GEOG 225. VISUALIZING GEOGRAPHY: UNDERSTANDING OUR DIVERSE WORLD. (3) Prerequisite: *21 hours of Foundations and Explorations Courses or junior status.* Visualizing Geography uses photographs, maps, and illustrations to explain the diversity of human societies, political systems, resources, and population movement across space and time, from local communities to our increasingly interconnected world. ***Colonnade K-SY***

GEOG 226. OUR DANGEROUS PLANET. (3) Prerequisite: *21 hours of Foundations and Explorations Courses, or junior status.* Introduction to how normal Earth processes concentrate their energies to create devastating impacts to humans and the built environment, with emphasis on survival techniques. ***Colonnade K-SY***

GEOG 227. OUR VULNERABLE PLANET. (3) Prerequisite: *21 hours of Foundations and Explorations Courses, or junior status.* Explore how anthropogenic processes such as climate change, pollution, urban sprawl, deforestation, and desertification impact the people on Earth and its ecosystems. Does not count towards a major or minor in Geography if GEOG 280 is taken as part of the degree requirements. ***Colonnade K-SY***

GEOG 280. ENVIRONMENTAL SCIENCE AND SUSTAINABILITY. (4) A general understanding of how the environment functions, the complexity of human-environmental interactions, and the application of geoscience in solving environmental problems. Lab component provides practical experiences associated with the theories outlined in the course content. ***Course Fee | Colonnade E-NS (SL) | NS | SL***

GEOG 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count towards any major or minor.)

GEOG 310. GLOBAL HYDROLOGY. (3) *Prerequisite: GEOL 111 or GEOG/GEOL 103.*An introduction to descriptive and quantitative hydrology. The hydrologic cycle precipitation, evaporation, and transpiration are covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing are covered under quantitative hydrology. Equivalent to GEOL 310.

GEOG 328. ELEMENTS OF BIOGEOGRAPHY. (3) An examination of the spatial interaction and distribution of global biomes. This course examines, through examples at a variety of spatial and ecological scales, the development of human-induced and naturally-occurring biogeographical changes.

GEOG 344. ENVIRONMENTAL ETHICS. (3) *Prerequisite: GEOG 280.* Examination of how environmental ethics and philosophy determine the use and alteration of the natural environment by humans. Analysis of human responsibility towards protecting the environment, environmental decision-making, sustainable development, and respect for indigenous cultures.

GEOG 380. GLOBAL SUSTAINABILITY. (3) *Prerequisite: GEOG 280 or GEOG / GEOL 103 or instructor's permission; For Colonnade, 21 hours of Foundations and Explorations Courses or junior status.* An introduction to the major themes and scientific principles of sustainability, with an emphasis on developing critical thinking skills. ***Colonnade K-LG***

GEOG 385. SOCIETY, RESOURCES, AND CLIMATE. (3) *Prerequisite: GEOG 110 and 280 and 21 hours of Foundations and Explorations Courses or junior status.* Discussion of global climate change from a societal and resource perspective; particularly how humans affect global climate change through population size, natural resource use, policy implementation, personal behavior, and societal norms, and vice versa. ***Colonnade K-SC***

GEOG 386. GEOGRAPHY OF POTENT POTABLES: BREWING, DISTILLING, AND WINE MAKING. (3) Prerequisite: *21 hours of Foundations and Explorations Courses, or junior status.* Students explore the geographies of alcoholic beverages, including the patterns of production, distribution, and consumption of beer, distilled spirits, and wine, and associated cultural and environmental impacts. Breweries, wineries, and distilleries are important elements of many diverse cultural and economic landscapes and reflect local geographies and global influences. The role of location is explored as it relates to such topics as access to raw materials, terroir, the rise of craft breweries and distilleries, sustainability, and cultural attitudes toward the production and consumption of alcoholic beverages.

GEOG 420. GEOMORPHOLOGY. (3) *Prerequisite: GEOL 111 or GEOG / GEOL 103.* The study of the origin, history, and characteristics of landforms produced by fluvial, glacial, wind, and wave erosion and mass-wasting and ground water or by a combination of these, acting upon the major types of earth materials and structures. Laboratory work includes the interpretation of topographic and geologic maps, air photos, and stereopairs. A field trip may be required. Equivalent to GEOL 420.

GEOG 427. WATER RESOURCE MANAGEMENT. (3) *Prerequisite: GEOL / GEOG 310.* Examines the use, management, and conservation of water resources. Discusses environmental, economic, political and social implications of water usage, as well as emerging trends in water availability, pollution, regulation, and technology.

GEOG 452. APPLIED GEOSCIENCE FIELD EXPERIENCES. (1-6) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Applied geoscience experiences in a variety of field-based settings, including, but not limited to, Study Abroad and Study Away programs, field camps, and extended fieldtrips to national or international settings. Repeatable for a maximum of 12 hours. ***Colonnade K-LG***

GEOG 455. GLOBAL CLIMATE CHANGE. (3) *Prerequisite: GEOG 280 or instructor's permission.* Explores the science behind global climate change, including how models, observations, and proxies are used to understand and predict past and future climate, international perspectives on global climate change, and mitigation strategies put forth by the Intergovernmental Panel on Climate Change.

GEOG 459. ADVANCED HYDROLOGY. (3) *Prerequisites: MATH 136 with a grade of "C" or better, and GEOG/GEOL 310 or GEOG/GEOL 420.* Builds upon the principles of descriptive and quantitative hydrology using a geologic- and calculus-based approach to understanding the Earth's hydrologic cycle. Includes components of atmospheric, surface, and ground waters and the principles of fluid dynamics that govern the physical and chemical processes that affect water and its behavior in the natural world.

GEOG 461. KARST ENVIRONMENTS. (3) *Prerequisites: GEOG / GEOL 310 or, GEOG 420, or permission of instructor.* Provides a fundamental understanding of karst, focusing on the processes, landforms, and evolution of karst landscapes over time, with an emphasis on the characterization, distribution, and function of various karst environments. Field trips and field-based exercises are required.

GEOG 471. TECHNOLOGICAL APPLICATIONS IN NATURAL RESOURCE MANAGEMENT. (3) *Prerequisites: GEOG 280 and GISC 316, or instructor's' permission.* Examines the application of technology to address current resource management challenges and ensure the efficient utilization of natural resources. Discussions may address, but are not limited to, timber, fisheries, oil and gas, and wildlife management.

GEOG 474. ENVIRONMENTAL PLANNING APPLICATIONS. (3) *Prerequisites: GEOG 280 and GEOG 210, or instructor's permission.* Integrative topics in environmental science, sustainability, and planning. Emphasis on sustainable community planning and development in urban and rural settings. Students study current models and policies from around the globe.

GEOG 486 SEMINAR IN ENVIRONMENTAL SCIENCE AND SUSTAINABILITY. (1-3) Current issues related to sustainability and / or environmental science discussed via invited lecturers, community engagements, and/or department and university-wide seminars. Students are expected to participate in assigned seminar activities throughout the duration of the course. Repeatable for up to 6 hours.

GEOG 487. ENVIRONMENTAL MANAGEMENT AND LAW. (3) *Prerequisites: Senior level standing.* Examination of major legislative, administrative, and judicial management approaches to addressing current environmental conditions related, but not limited to, natural resource consumption and air, water, and hazardous pollutants in the United Stated and abroad.

GEOG 489. ALTERNATIVES IN SUSTAINABILITY. (3) *Prerequisite: GEOG 280.* Addresses aspects of sustainability theory and practice, including problem-solving and decision-making techniques and critical analyses of prominent sustainability plans. Content focuses on a single topic within the sustainability discipline for the entirety of the course. Repeatable up to 6 hours with topic change.

CULTURAL AND ANALYTICAL GEOGRAPHY

GEOG 110. WORLD REGIONAL GEOGRAPHY. (3) A general survey of the political, social, and ecological systems of the world. The course is concerned with the complexity and diversity of world peoples and cultures. ***Colonnade E-SB | SB***

GEOG 200. LATIN AMERICAN SOCIETY: PAST AND PRESENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* This course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing regions, peoples, and cultures. Equivalent to HIST 200, PS 200, and SPAN 200. ***Colonnade K-SC***

GEOG 275. SUPERVISED INDEPENDENT RESEARCH IN GEOGRAPHY. (3) *Prerequisites: METR 121 or appropriate preparation course, and permission of instructor. Restricted to freshmen, sophomores, and Gatton Academy students*. A study of a selected problem under the supervision of a faculty member.

GEOG 300. WRITING IN THE GEOSCIENCES. (3) *Prerequisites: GEOG 110 and ENG 100 and one of the following: GEOG 103, GEOL 103, GEOL 111, or METR 121.* Students conduct investigations into writing, reading, and research conventions in the geosciences and receive advanced instruction in planning, drafting, arranging, revising, and editing geoscience-specific essays and research projects. ***Colonnade F-W2 | WC***

GEOG 330. INTRODUCTION TO CULTURAL GEOGRAPHY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* An overview of core concepts in cultural geography based on five major themes: region, mobility, globalization, nature-culture, and cultural landscape. Field trips required. ***Colonnade K-SC***

GEOG 350. ECONOMIC GEOGRAPHY. (3) This course examines the functional interrelationships among economic activities and areas in the consumption, production, and exchange of goods and services.

GEOG 352. GEOGRAPHY OF KENTUCKY. (3) A regional study assessing the natural and human resources of Kentucky with special attention to current ecological, social, and economic problems. A field experience is required.

GEOG 360. GEOGRAPHY OF NORTH AMERICA. (3) Analysis of selected problems related to natural conditions, land use, settlement patterns, and regional structure of the United States and Canada.

GEOG 364. GEOGRAPHY OF EUROPE. (3) *Prerequisite: GEOG 110.* A geographic analysis of Europe. Aspects of regional integration, with a focus on the European Community, and problems of economic growth in disadvantaged regions.

GEOG 378. FOOD, CULTURE, AND ENVIRONMENT. (3) *Prerequisite: GEOG 110 and 21 hours of Foundations and Explorations Courses, or junior status.* Exploration of geographical patterns of agricultural production and cuisine through the intersection of environment, technology, and culture. Field trips required. Students will share the cost of several meals. ***Course Fee | Colonnade K-LG***

GEOG 391. SPATIAL DATA ANALYSIS AND INTERPRETATION. (4) *Prerequisites: MATH 183 or MATH 136, and GISC 316; or special permission by instructor.* Statistical concepts and methods emphasizing their applications in a spatial context. Statistical description and hypothesis testing. Visualization and analysis of spatial patterns and relationships. ***Course Fee***

GEOG 425. POLITICAL GEOGRAPHY. (3) *Prerequisite: Permission of instructor.* A study of the political system as a spatial phenomenon from pre-literate forms and socio-political integration to the nation-state and other modern forms of political unification. Examples from local, metropolitan-regional, national, and international levels.

GEOG 430. TOPICS IN CULTURAL GEOGRAPHY. (3) *Prerequisite: GEOG 330.* Examines the concept of culture as it relates to the geographic landscape. Topics include the built environment, symbolic landscapes, representation of place in film, literature, photography, music, subaltern geographies, landscapes, cultures of work and place-situated identity, Course provides an overview of research methods and advanced topics in cultural geography. Field trip and field research is required.

GEOG 434. HISTORIC PRESERVATION PLANNING. (3) An overview of historic preservation methods and practice. The course will include an overview of the historic preservation movement in the United States and an examination of preservation law and methodology. A field project is required. Equivalent to FLK 434.

GEOG 462. GEOGRAPHY OF SOUTH AMERICA. (3) *Prerequisite: Permission of instructor.* Analysis of the physical and cultural bases of South America's geographical patterns with an emphasis on problems of urban and regional development.

GEOG 465.GEOGRAPHY OF EAST ASIA. (3) *Prerequisite: GEOG 110.* Analysis of selected contemporary geographic issues in East Asia. Emphasis is on a synthesis of various geographic factors and phenomena, including physical, cultural, political, social, and economic systems.

GEOG 466. GEOGRAPHY OF AFRICA. (3) *Prerequisite: Permission of instructor.* A geographic survey assessing the relationships of the physical and cultural patterns to actual and potential economic development.

GEOG 467. GEOGRAPHY OF THE MIDDLE EAST. (3) *Prerequisite: Permission of instructor.* This course deals with the various aspects of the sequent occupancy of southwestern Asia and surrounding regions. Emphasized are the physical setting, the historic religious geography of the region, and the contemporary scene.

GEOG 475. SELECTED TOPICS IN GEOGRAPHY. (1-3) *Prerequisite: Senior standing or permission of instructor.* A study of a selected problem under the supervision of a faculty member.

GEOG 480. URBAN GEOGRAPHY. (3) Geographic principles related to basic elements of distribution, structure, functional relationships, and regional setting of urban centers are discussed.

GEOG 481. TOURISM GEOGRAPHY (3) *Prerequisite: GEOG 110.* Examination of concepts, models, and theories in the geography of tourism. Topics include the evolution of patterns of tourism, economic, environmental, and socio-cultural impacts of tourism, sustainable tourism, environmental tourism, ethical tourism, the politics of tourism, and critical analysis of alternative meanings of tourism sites. Local, national, and international examples in both developed and developing countries are discussed.

GEOG 492. ADVANCED SPATIAL ANALYSIS. (3) *Prerequisites: GEOG 300 and 391 with a grade of "C" or better; or permission of instructor.* Applying advanced spatial analytical techniques in GIS environment. Quantitative analysis in Geosciences is emphasized. ***Course Fee***

GEOG 495. RESEARCH PRACTICUM OR INTERNSHIP. (1-9) *Prerequisite: Permission of instructor.* Supervised research or internship with faculty, government, community, or private concerns. May be repeated for a maximum of 12 credit hours in the major, with a maximum of 6 credit hours permitted in minor programs.

GEOG 499. PROFESSIONAL PREPARATION. (1) *Prerequisite: Senior standing.* Professional career or graduate school preparation, resume writing, college-to-career transition, professional ethics, graduate school application and requirements, written senior assessment and selected seminar topics. Outside speakers from industry and academia will be included. (Grading: Pass / Fail)

GEOL– GEOLOGY
DEPARTMENT OF GEOGRAPHY AND GEOLOGY (GEOL)

GEOL 103. OUR DYNAMIC PLANET. (3) Introduction to the spatial dimension of Earth's dynamic systems and how they affect people. These include the atmosphere, hydrosphere, and lithosphere. Equivalent to GEOG 103. ***Colonnade E-NS | NS***

GEOL 106. GEOLOGY AND CINEMA. (1.5) Examines how Hollywood depicts geology and geologists in movies. Addresses facts and fallacies in selected movies and in so doing explores basic geological processes and Earth materials. No credit for the Geology major or minor.

GEOL 107. BACKYARD GEOLOGY. (1.5) Applies basic geologic principles to local surroundings. Explains how geologic processes create local rock forms and structures. Field trips required. No credit for the Geology major or minor.

GEOL 111. THE EARTH. (3) The study of Earth including rocks, mineral resources, energy, soils, surface geologic processes, earthquakes and Earth's interior, global tectonics, hydrology and environmental geology. Students electing to meet their general education laboratory requirement through GEOL 113 must simultaneously enroll in the GEOL 111 lecture course. Laboratory is required for Geology majors, minors and some prospective science teachers but is optional for most others. ***Colonnade E-NS | NS***

GEOL 112. EARTH HISTORY. (3) Geologic study of the Earth's history: major land, sea, and life patterns throughout geologic time. Topics include the development of geology as a science, nature and significance of the fossil record, basic stratigraphic relations, theories concerning the origin of Earth and the solar system, prehistoric life, paleogeography, and global tectonics. Students electing to meet their general education laboratory requirement through GEOL 114 must simultaneously enroll in the GEOL 112 lecture course. The associated laboratory is required for Geology majors, minors and some prospective science teachers, but is optional for most others. ***Colonnade E-NS | NS***

GEOL 113. THE EARTH LABORATORY. (1) *Prerequisites/corequisites: GEOL 111 or GEOG / GEOL 103.* Laboratory work designed to accompany GEOL 111. Minerals, rocks, topographic maps, geologic maps, and aerial photographs are studied. This laboratory is required for Geology majors, minors and some prospective science teachers, but is optional for most others. ***Course Fee | Colonnade E-SL | SL***

GEOL 114. EARTH HISTORY LAB. (1) *Prerequisite or Corequisite: GEOL 112.* Laboratory work designed to accompany GEOL 112. Sedimentary rocks, fossil specimens, stratigraphic concepts and geologic maps are studied. This laboratory is required for Geology majors and minors and some prospective science teachers, but is optional for most other students. ***Course Fee | Colonnade E-SL | SL***

GEOL 270. ANALYTICAL TECHNIQUES IN GEOLOGY. (3) *Prerequisites: GEOL 111 and 112 or permission of instructor.* Basic analytical techniques used to examine and analyze Earth materials. Topics include precision and accuracy, sample preparation, contamination, calibration techniques, analysis of data sets. ***Course Fee***

GEOL 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or Ogden College faculty member recommendation.* To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count toward any major or minor.) Equivalent to BIOL 295, CHEM 295, CS 295, ENGR 295, MATH 295, and PHYS 295.

GEOL 305. EARTH SYSTEM SCIENCE FOR TEACHERS. (3) *Prerequisites: GEOL 111 and 113, or GEOL 112 and GEOL 114*. Collaborative, problem-based learning (PBL) experience, using real-world examples to enhance student understanding of earth system science, with a focus on relevance in science teaching grades K-12. Includes PFL-based lesson plan development. Applicable towards a major in geology on for those students seeking teacher certification.

GEOL 310. GLOBAL HYDROLOGY. (3) *Prerequisite: GEOL 111 or GEOG / GEOL 103.* An introduction to descriptive and quantitative hydrology. The hydrologic cycle precipitation, evaporation, and transpiration are covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing are covered under quantitative hydrology. Equivalent to GEOG 310.

GEOL 311. GENERAL OCEANOGRAPHY. (3) *Prerequisite: GEOL 111 and GEOL 113, or permission of instructor.* A course in basic fundamentals pertaining to the geological, chemical, physical and biological aspects of the marine environment. Topics for discussion include the topography, structure and history of the ocean basins and their margins, ocean waters and oceanic circulation, tides and waves, marine geochemistry, ocean sediments and sedimentation, near-shore geologic processes and the ocean as a biogeochemical system. The resources of the ocean and the influence of humans are also considered. ***Course Fee***

GEOL 315. ENERGY, CLIMATE, AND CARBON. (3) *Prerequisite: GEOL 111 or GEOL 112 or GEOL 103 or GEOG 103; 21 hours of Foundations and Explorations Courses, or junior status.* Energy, Climate, and Carbon investigates our current reliance upon carbon-based sources of energy, the effect of fossil-fuel emissions and global climate change. The course is particularly focused on carbon-capture technologies, geological carbon sequestration and renewable energy resources. ***Colonnade K-SY***

GEOL 325. INTRODUCTION TO MINERALS AND CRYSTALLINE ROCKS. (3) *Prerequisite: GEOG / GEOL 103 or GEOL 111; GEOL 113.* The sight identification of minerals and crystalline rocks is stressed. The description, origin and classification, economic uses, and occurrences of the major mineral and crystalline rock groups are discussed. Appropriate rock and mineral specimens are examined in the laboratory..

GEOL 330. MINERALOGY. (4) *Prerequisites: GEOL 111 and 113 and one semester of college chemistry or permission of the instructor.* The systematic study of minerals. Includes crystallography, crystal chemistry, mineral stability, the classification of minerals, and the origin, characteristics ad occurrences of the major mineral groups. Laboratory work includes crystal symmetry, mineral identification, and an introduction to the optical microscope. A field trip may be required. ***Course Fee***

GEOL 350. PETROLOGY. (4) *Prerequisite: GEOL 330.* The study of the origin, characteristics, occurrence, and classification of igneous and metamorphic rocks, and of the processes that lead to their formation. Their occurrence in relation to plate tectonics is stressed. Laboratory work includes petrographic study of igneous and metamorphic rocks in hand specimen and in thin section. A field trip is required. ***Course Fee***

GEOL 360. SEDIMENTOLOGY AND STRATIGRAPHY. (4) Prerequisite: GEOL 112 and GEOL 114. Introduces sedimentary processes, including sediment origins, erosion, transportation, deposition and diagenesis. Sedimentation patterns and stratigraphic architecture are studied in the context of depositional and tectonic settings.

GEOL 380. INTRODUCTORY FIELD TECHNIQUES. (3) *Prerequisites: GEOL 111 and 113; prerequisite or corequisite GEOL 112 and 114.* Techniques of geological field work. Topics include sampling, rock identification and description, field notes and the transition from field to laboratory analysis. Field work is required. ***Course Fee***

GEOL 399. RESEARCH PROBLEMS IN GEOLOGY. (1-3) *Prerequisites: Permission of research project director*. Individual research projects are conducted under faculty supervision. May be repeated with a change of content, but only (3) will be counted toward the major. A written report is required.

GEOL 405. PALEONTOLOGY. (4) *Prerequisites: GEOL 112 and 114 and BIOL 122 and 123 or permission of instructor.* A basic course in paleobiology including the nature of the fossil record, preservation, basic factors and theories relating to the origin and development of living systems and the process of evolution, the species concept, systematics, and paleoecology. Major invertebrate taxa with a significant fossil record are also studied. Laboratory work includes the examination, description, and classification of fossil specimens. ***Course Fee***

GEOL 408. STRUCTURAL GEOLOGY. (4) *Prerequisites: GEOL 111 and 113, and a prerequisite or corequisite of MATH 117 or higher.* This course introduces the mechanics, characteristics, occurrences, and resultant structures associated with the major processes of deformation of the earth's crust. Major structural regions of North America are discussed. The laboratory emphasizes graphical and mathematical solutions of structural problems. Field trip required.

GEOL 415. ENVIRONMENTAL GEOLOGY. (3) *Prerequisite: GEOL 111-113 or permission of instructor.* The interrelationships of geologic processes, earth materials, and human activities. Assessment of geologic factors with respect to site selection, energy production, land use, waste disposal, planning, water resources, engineering practices, and the recognition and control of geologic hazards. Class exercises stress the application of geologic knowledge to specific environmental situations.

GEOL 420. GEOMORPHOLOGY. (3) *Prerequisite: GEOL 111 or GEOG / GEOL 103.* The study of the origin, history, and characteristics of landforms produced by fluvial, glacial, wind, and wave erosion and mass-wasting and ground water or by combination of these, acting upon the major types of earth materials and structures. Laboratory work includes the interpretation of topographic and geologic maps, air photos, and stereopairs. A field trip may be required. Equivalent to GEOG 420.

GEOL 430. OPTICAL MINERALOGY. (3) *Prerequisite: GEOL 325 or 330.* A study of the optical constants and phenomena exhibited by and characteristic of crystalline mineral materials. Topics covered include the behavior of light in crystalline solids, the origin and nature of interference colors, refractive index, birefringence, optical character, and optical identification of minerals. Laboratory work concerns techniques employed with the petrographic microscope and the use of the microscope in mineral identification.

GEOL 432. DIFFRACTION AND SPECTROSCOPY. (4) *Prerequisite: GEOL 325 or GEOL 330 or CHEM 222 or PHYS 266.* Theory and experimental practices of modern analytical techniques for the analysis of crystal structures. Focuses on the study of crystallography, crystal chemistry, and their physical and chemical properties. Laboratory fee required.

GEOL 440. HYDROGEOLOGY. (3) *Prerequisite: GEOG 310 or GEOL 310. Prerequisite or corequisite: MATH 136.* Origin, occurrence, and movement of ground water; water wells and aquifer evaluations; exploratory investigations; quality of ground water supplies; legal aspects.

GEOL 445. AQUEOUS GEOCHEMISTRY. (3) *Prerequisites: CHEM 120 and 121.* An introduction to geochemical processes of surface and ground water including concentrations of ions and organic compounds, chemical equilibria, and analytical techniques. Carbonate and clay minerals will be studied in detail.

GEOL 465. GEOPHYSICS. (3) *Prerequisites: GEOL 111 and one year of college physics or permission of instructor.* The fundamentals of general and exploration geophysics. Topics include the origin of the earth and solar system, the earth's interior, geochronology, gravity and isostasy, seismology, the earth's heat, geomagnetism, upper atmosphere, continents and ocean basins, ridges and island arcs, and plate tectonics. The theory and applications of exploration geophysics are also covered, especially gravity, magnetic, and seismic methods.

GEOL 470. TECTONICS. (3) *Prerequisite: GEOL 308.* Deformational structure and style of various crustal regions. Regional tectonics of North American is emphasized. ***Course Fee***

GEOL 475. SPECIAL TOPICS IN GEOLOGY. (1-3) *Prerequisite: Permission of instructor.* A lecture-discussion or supervised research course in which advanced or special topics in geology are considered in detail. Students may repeat the course when the topic changes for a maximum total of 12 credit hours. Special topics courses may not replace required courses in the geology major / minor but may be applied as elective credit.

GEOL 485. GEOLOGY OF FOSSIL FUELS. (3) *Prerequisite: GEOL 308 or permission of instructor.* Formation of coal, petroleum and natural gas including depositional setting, source materials and processes of thermal maturation. Stratigraphic and structural relations, modes of occurrence, exploration techniques and resource evaluation are emphasized. Field trip required.

GEOL 490. PETROLEUM GEOLOGY. (3) Concepts of oil formation, source-rock evaluation, thermal maturation, and petroleum migration are reviewed. Emphasis is placed on characterization of petroleum reservoirs and traps and on the techniques employed by geologists in exploration for oil and gas accumulations. Field trip required.

GEOL 499. PROFESSIONAL PREPARATION IN GEOLOGY. (2) *Prerequisite: Senior standing.* Professional career preparation in geology including senior assessment, resume writing, college-to-career transition, professional ethics and selected seminar topics. Outside speakers from industry and academia will be included. (Grading: Pass / Fail)

GERM – GERMAN
DEPARTMENT OF MODERN LANGUAGES (GERM)

GERM 100. GERMAN LANGUAGE AND CULTURE ON-SITE. (1-3) *Prerequisite: Permission of instructor.* An introduction to German and German-speaking culture in conjunction with study abroad for students with little or no previous language study. May be repeated for a total of three credits.

GERM 101.ELEMENTARY GERMAN I. (3) Introduction to German through exploration of the students' personal world: expressing preferences, abilities, needs, and obligations; asking for information; describing things in their world; and reporting their typical activities.

GERM 102.ELEMENTARY GERMAN II. (3) *Prerequisite: GERM 101 or demonstrated proficiency of Novice Mid.* Continued development of communication on topics related to everyday life in cultural context. Target proficiency: at least Novice High. ***Course Fee*** | ***Fulfills World Language with a grade of C or better.***

GERM 105. INTRODUCTION TO GERMANIC CULTURE. (3) Survey of the contemporary culture of Austria and Germany, with emphasis on values, behavioral characteristics, social and political structures, and achievements of German-speaking peoples. Taught in English; only taught abroad.

GERM 201. INTERMEDIATE GERMAN I. (3) *Prerequisite: GERM 102 or demonstrated proficiency of Novice High.* Strengthen communicative abilities on a broader range of topics. Emphasis on social interaction and practical uses of the language. Target proficiency: Intermediate Low. ***Fulfills World Language with a grade of C or better.***

GERM 202. INTERMEDIATE GERMAN II. (3) *Prerequisite: GERM 201 or demonstrated proficiency of Intermediate Mid.* Students to create with language, maintain communication, explore topics in greater detail. Material drawn from literature, popular culture and the internet. Target proficiency: Intermediate Mid. ***Fulfills World Language with a grade of C or better.***

GERM 210. INTERMEDIATE GERMAN CONVERSATION ABROAD. (1-3) *Prerequisite: GERM 102 or demonstrated proficiency of Novice High.* Course designed to develop the vocabulary and communication skills of a student with one year of college German or equivalent, with emphasis on contact with German native speakers. GERM 210 may not substitute for GERM 201 or 202, but may count as an elective for the major or minor. Taught in German. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

GERM 211. INTERMEDIATE GERMAN CULTURE ABROAD. (1-3) *Prerequisite: GERM 102 or demonstrated proficiency of Novice High.* Course designed to develop an appreciation for different aspects of German-speaking countries and their people and cultures, for a student with one year of college German or equivalent. GERM 211 may not substitute for GERM 201 or 202, but may count as an elective for the major or minor. Taught in German. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

GERM 306. EXPERIENCING GERMAN ABROAD. (1-6) *Prerequisites: GERM 202 or demonstrated proficiency of Intermediate High. Corequisite: Enrollment in supervised language study while abroad.* Supervised language and cultural studies accomplished during a study abroad program. Students who receive transferable credit for language study done during the study abroad program will receive credit only for cultural study. May be repeated once for a maximum of six hours of credit. ***Fulfills World Language with a grade of C or better.***

GERM 314. INTRODUCTION TO GERMAN LITERATURE. (3) *Prerequisite: GERM 202 or demonstrated proficiency of Intermediate Mid .* Emphasis on major periods, literary types and critical approaches through the study of selected representative works and authors. ***Fulfills World Language with a grade of C or better.***

GERM 330. GERMAN COMPOSITION AND CONVERSATION. (3) *Prerequisite: GERM 202 or demonstrated proficiency of Intermediate Mid*. Develops skill in writing and speaking standard German. Stress is on vocabulary building, use of dictionary and control of sentence structures. Skill in spoken German is aimed at enabling the students to find their way around the environment and to function in a social situation. ***Fulfills World Language with a grade of C or better.***

GERM 331. BUSINESS GERMAN. (3) *Prerequisite: GERM 202 or demonstrated proficiency of Intermediate Mid*. Introduction to business communication in German-speaking countries: linguistic structures and vocabulary, forms of business communication, reading and discussion of business texts, social customs. ***Fulfills World Language with a grade of C or better.***

GERM 332. ADVANCED GERMAN TRANSLATION. (3) *Prerequisite: GERM 202 or demonstrated proficiency of Intermediate Mid.* Translation English to German and German to English of texts selected from various sources both literary and non-literary. Texts are selected for general interest and challenge to the translator. ***Fulfills World Language with a grade of C or better.***

GERM 333. GERMANIC CIVILIZATION AND CULTURE. (3) *Prerequisite: GERM 202 or demonstrated proficiency of Intermediate Mid.* Survey of the historical background and cultural development of the German-speaking countries of Europe: The Federal Republic of Germany, Austria and Switzerland. Conducted in German. ***Fulfills World Language with a grade of C or better.***

GERM 335. CONTEMPORARY CULTURE AND CIVILIZATION. (3) *Prerequisites: GERM 202 or demonstrated proficiency of Intermediate Mid*. Study of geography, politics, social customs, culture and contemporary issues of the German-speaking countries. Especially useful for students who plan to study or work abroad. Taught in German. ***Fulfills World Language with a grade of C or better.***

GERM 389. INTERNSHIP IN GERMAN. (1-3) *Prerequisites: GERM 202 or demonstrated proficiency of Intermediate Mid*. Supervised work using German in a professional setting. Open only to German majors or minors. May be repeated once for elective credit in the major or minor for a maximum of six hours. ***Fulfills World Language with a grade of C or better.***

GERM 430. ADVANCED GERMAN STYLISTICS. (3) *Prerequisite: GERM 330 or permission of instructor.* Provides intensive practice in written and spoken German, enabling the student to write letters, reports, essays, descriptions, and to discuss literary, cultural, and political topics. ***Fulfills World Language with a grade of C or better.***

GERM 435. GERMAN LITERATURE OF THE 19TH AND 20TH CENTURIES. (3) *Prerequisite: GERM 314 or demonstrated proficiency of Intermediate Mid*. A study of major German, Austrian, and Swiss writers of the 19th and 20th centuries with emphasis on prose and drama. ***Fulfills World Language with a grade of C or better.***

GERM 436. GERMAN LITERATURE OF THE CLASSICAL PERIOD. (3) *Prerequisite: GERM 314 or permission of instructor.* A study of the outstanding works of Goethe, Schiller and other authors of the late 18th and early 19th centuries. ***Fulfills World Language with a grade of C or better.***

GERM 437. GERMAN LITERATURE AND FILM. (3) *Prerequisite: GERM 314 or equivalent.* A study of German film and film adaptations of German literature. Emphasis on textual analysis, special film terminology, theoretical approaches to film, writing about film. ***Fulfills World Language with a grade of C or better.***

GERM 455. TOPICS IN GERMANIC LITERARY AND CULTURAL STUDIES. (3) *Prerequisite: GERM 314 or demonstrated proficiency of Intermediate Mid*. Examines different topics of interest in German literary and cultural studies. May be repeated once for credit. ***Fulfills World Language with a grade of C or better.***

GERM 499. ADVANCED STUDIES IN GERMAN. (1-4) *Prerequisites: GERM 314 or demonstrated proficiency of Intermediate Mid*. For guided independent study in culture, language, or literature. May be used with consent of full-time program faculty members for work accomplished during study abroad. Number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of six hours of credit. ***Fulfills World Language with a grade of C or better.***

GERO - GERONTOLOGY
DEPARTMENT OF APPLIED HUMAN SCIENCES

GERO 100. INTRODUCTION TO THE AGING EXPERIENCE. (3) An introduction to a variety of topics involved in the study of aging. Considers such issues as worldwide changing demographics, increased diversity among the aged, intergenerational relationships, and biopsychosocial concerns of aging. ***Colonnade E-SB | SB***

GERO 461. PERSON-CENTERED DEMENTIA MANAGEMENT. (3) A survey of dementia using a person-centered approach. Exploration of the diverse perspectives of persons diagnosed, family members, and both informal and formal caregivers.

GERO 481. GLOBAL AGING. (3) Provides an international comparative examination of individual and societal aspects of aging and explores the problems and solutions encountered in different sociocultural contexts for dealing with challenges and opportunities of aging. The phenomenon of global aging is explored through active engagement with international organizations.

GERO 485. SEMINAR IN GERONTOLOGY. (3) *Prerequisites: GERO 100, primary GERO electives, and consent of Gerontology coordinator.* Students integrate what they have learned in Gerontology with a focus on how those concepts, ideas, theories and practical experiences relate to their personal, professional or higher education goals.

GERO 490. INDEPENDENT STUDY IN GERONTOLOGY. (1-6) *Prerequisites Permission of the instructor and the Gerontology coordinator.* Supervised individual study and / or field-based experience in a topic or area of Gerontology of particular interest to the student. May be repeated for credit, but only a total of 3 credit hours can be counted toward a Gerontology minor.

GERO 495. TOPICS IN GERONTOLOGY. (1-3) Investigation of specific issues in Gerontology, either from the perspective of a single discipline or from a multidisciplinary perspective. Students are responsible for arranging their own transportation to assigned sites. May be repeated for credit, but only a total of 3 credit hours can be counted toward a Gerontology minor.

GISC– GEOGRAPHIC INFORMATION SYSTEMS
DEPARTMENT OF GEOGRAPHY AND GEOLOGY

GISC 216. GEOTECHNOLOGIES IN A GLOBAL COMMUNITY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Introduces the purpose, operation, and application of the Geographic Information Science technologies in contemporary society. This course cannot be substituted for any other GIS course. ***Course Fee | Colonnade K-LG***

GISC 316. FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS. (4) *Prerequisites: GEOG 103 or GEOL 103 or GEOL 111 or METR 121; and GEOG 110; or permission of the instructor.* Fundamentals of GIS data management and cartographic design. Topics include data organization, map projections, scale, and accuracy. Hands-on work in geospatial data acquisition, base map development, and map production. ***Course Fee***

GISC 317. GEOGRAPHIC INFORMATION SYSTEMS. (4) *Prerequisites: GISC 316 with a grade of "C" or better, or permission of instructor.* The principles, concepts, and applications of GIS. Topics include raster and vector data modules, GIS data sources, data acquisition, storage, management, structured query language, relational databases, GIS analysis and display. ***Course Fee***

GISC 414. REMOTE SENSING FUNDAMENTALS. (4) *Prerequisite: GISC 317 or permission of instructor.* Fundamentals of remote sensing theory and application including the electromagnetic spectrum, history of remote sensing, sensing platforms system limitations and applications for vegetation studies, land-use change and environmental management. Course includes a lab component. ***Course Fee***

GISC 417. GIS ANALYSIS AND MODELING. (3) *Prerequisite: GISC 317 with a grade of "C" or better or instructor's permission.* Develops expertise with a broad range of spatial analysis and modeling functions using GIS. A problem-oriented approach. ***Course Fee***

GISC 418. INTERNET GEOGRAPHIC INFORMATION SYSTEMS. (3) *Prerequisites: CS 170, and GISC 417 with a grade of C or better; or permission of instructor.* Understanding and utilizing different techniques for creating, analyzing and disseminating GIS data and services via the internet. ***Course Fee***

GISC 419. GIS PROGRAMMING. (3) *Prerequisites: GISC 317, or permission by instructor.* Learning the process of expanding GIS functionalities. Customizing a GIS system via computer programming. ***Course Fee***

GISC 423. GEOPROCESSING AND GIS APPLICATIONS. (3) *Prerequisite: GISC 317 with a grade of "C" or higher; or permission of instructor.* Explores selected issues related to urban applications of GIS. Develop analytical skills and knowledge in transportation, urban management, locational analysis, and business geography. ***Course Fee***

GISC 443. GEOGRAPHIC INFORMATION SYSTEMS DATABASES. (3) *Prerequisites: CS 170, and GISC 417 with a grade of "C" or higher; or permission of instructor.* The concepts and principles of GIS database planning, design, implementation, and administration. Focuses on the development of state-of-the-art GIS databases. ***Course Fee***

GISC 477. SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SYSTEMS. (3) *Prerequisites: GISC 417 and GISC 443 with a grade of "C" or higher; or permission of instructor.* Applications of GIS technologies in selected technical areas such as 3D GIS and Enterprise GIS, or directed research of an elected domain-specific problem. Repeatable once for credit. ***Course Fee***

GWS– GENDER & WOMEN'S STUDIES
DEPARTMENT OF DIVERSITY AND COMMUNITY STUDIES

GWS 200. INTRODUCTION TO GENDER AND WOMEN'S STUDIES. (3) Drawing on historical perspectives and cultural analysis, this course examines such topics as women and work, violence against women, family, and the social construction of gender, sexuality, race, and class. ***Colonnade E-SB | SB***

GWS 321. WOMEN AND JOURNALISM. (3) *Prerequisite: Sophomore standing.* Survey of women's contributions to journalism, including historical and contemporary challenges women face in the profession, mainstream news media coverage of women's issues, examples of women's work in various news genres, global feminist news coverage, and the depiction of women journalists in film and literature.

GWS 350. FEMINISM, THE ARTS, AND SOCIAL CHANGE. (3) *Prerequisite; GWS 200 or permission of instructor.* An investigation into the potential of feminist arts and creative action to create community and social change.

GWS 375. AMERICAN MASCULINITIES. (3) *Prerequisite: Sophomore standing.* Survey of the meanings of manhood in the United States, including historical, social, economic, cultural, and political influences on the development of masculine identity.

GWS 400. WESTERN FEMINIST THOUGHT. (3) *Prerequisite: GWS 200 and junior standing.* This course presents the fundamental concepts embodied in Western feminist thought as it has developed from the eighteenth century to the present. It emphasizes a close analysis of individual works and critical evaluations of the assumptions and central concepts that inform the works under consideration.

GWS 421. GENDER, WOMEN AND SCIENCE. (3) *Prerequisites: Completion of Colonnade Explorations Natural and Physical Sciences requirements or permission of instructor and junior standing.* Study of women's participation in the natural and physical sciences, the scientific education of women, contemporary science workplaces, and feminist critiques of science.

GWS 470. SPECIAL TOPICS IN GENDER AND WOMEN'S STUDIES. (3) *Prerequisites: Junior standing and permission of instructor.* A detailed study of a specialized topic in Gender and Women's Studies.

GWS 491. PRACTICUM IN GENDER AND WOMEN'S STUDIES. (3) *Prerequisite: Junior standing, GWS 200, and instructor permission.* Practical experience volunteering with cooperating community organizations that address the needs of women or deal in some compelling way with gender issues.

GWS 499. DIRECTED STUDY. (1-3) This course is available to students who wish to conduct individual, intensive reading and research in a specific area of Gender and Women's Studies under the direction of supervising faculty. Approval required prior to enrollment.

HCA – HEALTH CARE ADMINISTRATION
DEPARTMENT OF PUBLIC HEALTH

HCA 120. HEALTH LITERACY FOR CONSUMERS. (3) Provides an introduction to health literacy from a consumer's perspective. Students will examine the current state of affairs in healthcare, identify medical challenges, and learn how consumers can heightened awareness and better prepare to be their own best advocate.

HCA 247. CONTEMPORARY HEALTHCARE ISSUES. (3) *Prerequisites: ENGL 100C, sophomore standing.* An introductory course addressing contemporary issues confronting the healthcare delivery system, patients, and medical professionals in American society. Equivalent to HED 247C.

HCA 340. HEALTH CARE ORGANIZATION AND MANAGEMENT. (3) Examines the historic, social, political, and economic factors that shape the U.S. health care delivery system. Topics include the components of the healthcare delivery system such as medical office practices, hospitals, and long-term healthcare systems. Included are financial and non-financial resources found in the U.S., concepts of public health, quality of care and outcomes measurement, and strategies for improving access to care. The role of health care administration as critical to the system will be stressed.

HCA 342. HUMAN RESOURCES MANAGEMENT FOR HEALTHCARE MANAGERS. (3) *Prerequisite: HCA 340 or permission of instructor.* This course explores human resource management issues experienced by supervisors within healthcare organizations. Course topics include core human resources management functions and skills (job analysis, recruitment, retention, selection, placement, training / education, performance evaluation, and compensation) related to clinical, administrative and paraprofessional employees within the healthcare setting.

HCA 343. QUALITY MANAGEMENT FOR HEALTHCARE. (3) *Prerequisite: HCA 340 or permission of instructor.* Examines the history, philosophies, methods, and techniques used in continuous quality improvement, specifically for healthcare delivery systems. Topics include problem identification, data collection and analysis, implementation, and evaluation of system changes. Customer service approach to health care, accreditation, credentialing, and current issues in quality improvement (performance improvement models and patient safety improvement), utilization management and risk management will be included in the discussion.

HCA 344. HEALTH SYSTEMS MANAGEMENT. (3) *Prerequisite: HCA 340 or permission of instructor.* This course provides information and applications of general systems theory relative to organizations, operations, and decision analysis in healthcare delivery system components. The course will also explore the responsibilities, relationships, and trends of various departments in health facilities.

HCA 345. LONG-TERM CARE ADMINISTRATION. (3) *Prerequisite: Sophomore standing.* Introduce the special topics and operating environment facing long-term care managers today. Emphasis is on regulations, reimbursement, care delivery, and alternative delivery systems that deal with the elderly. Includes field trips.

HCA 346. AMBULATORY CARE ADMINISTRATION. (3) *Prerequisite: HCA 340.* Access, content, and expected outcomes of health care delivery settings outside traditional inpatient facilities.

HCA 347. INTERNATIONAL COMPARISONS OF HEALTH CARE SYSTEMS. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status* Cross country comparisons, including concepts of illness and healing within different cultural contexts; differing approaches to critical issues including access, quality of care, and cost containment; and methods of organization, financing and structuring of providers in various countries. ***Colonnade K-LG***

HCA 353. QUALITY AND PATIENT SAFETY IN LONG-TERM CARE. (3) Application of quality management techniques with special emphasis on the types of populations, facilities, and expectations involved in long-term care service delivery programs.

HCA 355. NURSING FACILITY ADMINISTRATION. (3) *Prerequisite: HCA 345 or permission of instructor.* Cover the domains of knowledge associated with the national licensure examination for nursing home administrators along with other necessary knowledge for the administration of a long-term care facility.

HCA 383. DATA MANAGEMENT APPLICATIONS IN HEALTHCARE. (1) *Prerequisite: MATH 183 or SOCL 300 or PH 383 or permission of instructor.* This course covers data types, data use, and data management approaches including statistical applications that are currently used in the healthcare industry. Data management and analysis products including MS Excel, SPSS and other data management/statistical applications relevant to the healthcare environment would be used to deliver course content. Basic familiarity with personal computers is assumed.

HCA 401. FUNDAMENTALS OF HEALTH CARE FINANCIAL MANAGEMENT. (3) *Prerequisite: HCA 340 or permission of instructor.* Principles of financial management for health care organizations. Financial ratios applicable to health providers and insurance companies; issues in the healthcare revenue cycle and value chain; recognizing sources of risk in reimbursement and addressing risk in financial plans.

HCA 440. HEALTH ECONOMICS. (3) *Prerequisites: HCA 340, 344, 345 or 346, and ECON 202 or ECON 203.* Examines the characteristics of the markets for medical services with emphasis on medical costs, competition, health cost inflation, health insurance, medical service markets, regulation, and economic strategies for health care managers. This course includes financing and cost-control in foreign health systems.

HCA 441. LEGAL ASPECTS / HEALTH CARE. (3) *Prerequisite: HCA 340, or permission of instructor.* This course will examine the relationship between the health care system in the United States and the legal system. The component parts of the legal system, including the legislative, administrative and judicial functions will be reviewed. Current trends in the area of health care law will be studied.

HCA 442. PRINCIPLES AND METHODS OF HEALTH PLANNING. (3) *Prerequisites: HCA 340 and HCA 344.* This course will provide theoretical foundations and methodology used in health planning. It will include the roles of government, health professions and consumers in the process of planning for health services, facilities and manpower.

HCA 445. HEALTH CARE FINANCE. (3) *Prerequisites: HCA 340, HCA 344, HCA 345 or HCA 346 or HCA 355, ACCT 201 or HIM 252, HCA 440 or any 300 level or above economics course.* Methods of financing health care will include a review of health care specific financial statements, and quantitative methods. Students are expected to develop an understanding of the financial basis of cost accounting and managerial decision-making. The course covers the importance of managed care and an overview of managed care contracting.

HCA 446. HEALTH CARE INFORMATICS. (3) *Prerequisite: HCA 340.* Consideration of the vital role played by the exchange of organizational information in support of clinical care and management decision making in today's health care environment.

HCA 447. INFORMATION SYSTEMS LABORATORY. (1) *Prerequisite: Permission of instructor.* This course includes hands-on instruction in computer hardware, operating systems, and database architecture. Basic familiarity with personal computers is assumed.

HCA 448. HEALTH CARE ANALYSIS AND EVALUATION. (3) *Prerequisites: HCA 344 and senior standing.* Unifies the knowledge gained in the required coursework for health care administration majors and prepares them for the internship experience. Individual primary projects are required.

HCA 449. INTERNSHIP IN HEALTH CARE ADMINISTRATION. (1-6) *Prerequisites: Completion of all program course requirements, general education and electives, minimum overall GPA of 2.5, and permission of the internship supervisor.* The internship provides the student administrative experience with a health care provider or health related organization. Students are expected to secure the internship site during the last academic semester and are responsible for all university and facility requirements during the internship. Participating agencies will have a qualified administrator to serve as preceptor. Off-campus travel required. Interns are not permitted to take other courses during internship. (Grading: Pass / Fail)

HCA 459. GLOBAL HEALTH SERVICE-LEARNING PRACTICUM. (3) *Prerequisite: HCA 347 or permission of instructor.* Designed to provide students in health professions with a global service-learning experience. Integrates student knowledge and skills with practical applications in global health context, based on the student career objectives and the health needs of the served communities. Repeatable once for a total of six credit hours.

HCA 471. MANAGED CARE. (3) *Prerequisites: HCA 340, 344, 440, 441.* This elective course provides an overview of managed care, includes history, government policy, organizational structures, cost control strategies and management issues.

HED– Health Education
Department of public health

HED 247C. CONTEMPORARY HEALTHCARE ISSUES. (3) *Prerequisites: ENGL 100C, sophomore standing.* An introductory course addressing contemporary issues confronting the healthcare delivery system, patients, and medical professionals in American society. Equivalent to HCA 247.

HIM– Health Information Management
Department of Public Health

HIM 100. HEALTH DATA CONTENT AND STRUCTURE. ** (4) Emphasis on the health information profession, interdisciplinary relationships, health care data management, documentation standards, and methods of access and retention of image-based information and maintenance of health information in acute and non-acute care facilities. Procedures for maintaining vital statistics and specialized registries will be included. ***Course Fee***

HIM 220. STATISTICAL APPLICATIONS IN HEALTH INFORMATION MANAGEMENT. (2) *Prerequisites: HIM 100 and MA 109C / 116C.* Emphasis on acquiring knowledge and skills in data collection methods, health statistics terminology, and computation and presentation of reported health statistics.

HIM 221. HEALTH INFORMATION AND QUALITY MANAGEMENT. (4)** *Prerequisite: HIM 100.* Exploration of principles of management, human relations, human resources, total quality management, utilization and risk management and credentialing in the HIM department and healthcare setting.

HIM 225. LEGAL ISSUES IN HEALTH INFORMATION MANAGEMENT. (2) Advanced course relating concepts and principles of law, the health record as a legal document, confidential communication, consents and authorization, release of information and current trends in health legislation.

HIM 230. COMPUTER SYSTEMS AND APPLICATIONS IN HEALTH INFORMATION MANAGEMENT. (3)** *Prerequisites: HIM 100 and CSCI 145C or CIS 141.* Exploration of computer systems for health information management, with emphasis on the electronic health record. Various HIM software applications will be utilized. ***Course Fee***

HIM 250. INTERNATIONAL CLASSIFICATION OF DISEASES (ICD) CODING. (4)** *Prerequisites: HIM 100, AH 290, BIO 131C, or consent of the instructor.* Discussion of various nomenclature and classification systems. Guidelines used to assign codes to diseases and operations in the current ICD classification system.

HIM 251. HEALTHCARE COMMON PROCEDURE CODING SYSTEM / CURRENT PROCEDURAL TERMINOLOGY (HCPCS / CPT) CODING. (4)** *Prerequisite: HIM 100 or consent of instructor.* Application of HCPCS / CPT coding principles to outpatient reimbursement systems.

HIM 252. HEALTHCARE PAYMENT SYSTEMS. (3) Overview of management of health care payment systems including insurances, billing and collection processes, case mix analysis, corporate compliance, HIPAA, and other current reimbursement issues.

HIM 290. MEDICAL TERMINOLOGY. (2) A course designed to acquaint the student with the specialized language of medicine and to develop communication skills in areas where use of medical terms is necessary and appropriate. Equivalent to AH 290.

HIM 291. ADVANCED MEDICAL TERMINOLGY. (2) *Prerequisite: AH 290 or consent of instructor.* Terminology of diseases, operations and treatment modalities.

HIM 292. PHARMACOLOGY AND LABORATORY DIAGNOSTICS. (2) Study of pharmacology, laboratory tests and diagnostics as they relate to the management of health information.

HIM 295. SEMINAR AND PROFESSIONAL PRACTICE EXPERIENCE. (5) *Prerequisites: Completion of all associate degree HIM required courses.* Final project-based field experience. Two weeks preparatory classroom work; two weeks focused field experience; on-campus post-seminar and project presentation. Students responsible for own expenses.

HIM 330. ELECTRONIC HEALTH RECORD SYSTEMS. (3) *Prerequisites: HIM 100, HCA 340, CD 280, NUR 105, SWRK 205 or other introductory health profession course approved by instructor.* Utilization, application, analysis, and evaluation of an electronic health record system for data collection, communication, storage, reporting and exchange of health information.

HIM 350. HEALTH INFORMATICS RESEARCH. (3) *Prerequisites: HIM 230, PH 383, HCA 340.* Applies principles and methods of scientific research to selected topics in health informatics and relevant healthcare issues.

HIM 351. INTERNATIONAL CLASSIFICATION OF DISEASES (ICD-10) CODING. (1) *Prerequisites: Open only to matriculated baccalaureate degree Health Information Management (HIM) students.* Course provides students with opportunities to learn and apply guidelines of ICD-10-CM and ICD-10-PCS coding.

HIM 421. HEALTH INFORMATION LEADERSHIP AND MANAGEMENT. (3) *Prerequisites: Junior standing in HIM BS program.* Application, evaluation, and creation of operational, managerial, and strategic planning for health information including project management, budgeting, human resources, professional development, and other administrative functions.

HIM 422. CLINICAL EVALUATION AND OUTCOMES. (3) *Prerequisites: PH 383, HIM 221 or equivalent or permission of instructor.* Advanced course in applying measurements, evaluations, and reports to processes, structures, and outcomes in improving the efficiency and effectiveness of health information management and clinical services.

HIM 430. HEALTH DATA MANAGEMENT AND ANALYTICS. (3) *Prerequisites: HIM 330 and one of the following: HIM 230, HCA 446 and 447, CIT 350, BDAN 330, or INS 272C.* Acquisition, analysis, display, interpretation, reporting, transformation, and management of healthcare data to respond to needs, trends, and changes in clinical practice, management, health care quality, regulations, legislation, accrediting bodies and marketplace..

HIM 450. APPLICATION & ANALYSIS OF HIM THEORY. (3) *Prerequisite: Open only to matriculated baccalaureate degree Health Information Management (HIM) students.* Advanced study in application and analysis of HIM theory in healthcare settings. Must be taken in semester prior to enrollment in HIM 495 Capstone PPE.

HIM 495. CAPSTONE PROFESSIONAL PRACTICE EXPERIENCE. (3-6) *Prerequisites Completion of all HIM baccalaureate degree required courses.* Professional practice experience in a health-related setting. Students are responsible for their own travel.**Lab component required.

HIST– HISTORY
DEPARTMENT OF HISTORY (HIST)

HIST 101. WORLD HISTORY I. (3) A comparative historical survey of the major political, religious, and cultural developments in Asia, Africa, and the Mediterranean basin, Europe, and the Americas from ca. 3000 BCE to 1500 CE. ***Colonnade F-SB | SB***

HIST 102. WORLD HISTORY II. (3) A comparative historical survey of the major political, religious, and cultural developments in Asia, Africa, Europe, and the Americas from 1500 to present. ***Colonnade F-SB | SB***

HIST 110. INTRODUCTION TO ASIAN CIVILIZATION. (3) A survey of the histories and cultures of the civilizations of Asia, emphasizing the traditional values which have shaped their development from ancient to modern times.

HIST 119. WESTERN CIVILIZATION TO 1648. (3) A survey of the political, social, cultural, and economic phases of western civilization to 1648.

HIST 120. WESTERN CIVILIZATION SINCE 1648. (3) A survey of the political, social, cultural, and economic phases of western civilization since 1648.

HIST 175. UNIVERSITY EXPERIENCE-HISTORY/ SOCIAL SCIENCES. (3) *Prerequisite: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, iCAP reports, campus resources and personal development. Special attention is given to educational requirements, careers and resources in history and social studies.

HIST 200. LATIN AMERICAN SOCIETY: PAST AND PRESENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A broad interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples, and cultures. Equivalent to GEOG 200, PS 200, and SPAN 200. ***Colonnade K-SC***

HIST 240. THE UNITED STATES TO 1865. (3) A survey of the political, social, cultural, and economic phases of American life to the Civil War.

HIST 241. THE UNITED STATES SINCE 1865. (3) A survey of the political, social, cultural, and economic phases of American life since the Civil War.

HIST 299. INTRODUCTION TO MILITARY HISTORY. (3) A study of the development of warfare from the earliest times to the present with emphasis on the modern period and the development of weapons, tactics, and strategy.

HIST 300. CONTEMPORARY CHINESE SOCIETY AND CULTURE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Examines contemporary Chinese society and culture from 1949 to present, focusing on both macro-level development and the daily experiences of ordinary citizens. ***Colonnade K-LG***

HIST 305. ANCIENT GREECE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A survey emphasizing the political, cultural, social, and economic aspects of Greek civilization. ***Colonnade K-SY***

HIST 306. ANCIENT ROME. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A survey emphasizing the political, cultural, social, and economic aspects of Roman civilization. ***Colonnade K-SY***

HIST 307. THE MIDDLE AGES. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A study of political, cultural, social, and economic institutions from the fifth century to the fourteenth century. ***Colonnade K-SY***

HIST 308. CONFLICT, CULTURE AND COMMERCE IN THE MEDIEVAL MEDITERRANEAN. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Explores the developing relationship between religion, culture and power in medieval kingdoms with substantial Christian, Jewish and Muslim inhabitants. ***Colonnade K-SY***

HIST 310. COMPARATIVE SLAVERY. (3) *Prerequisite: HIST 101 or 102 and 21 hours of Foundations and Explorations Courses, or junior status.* Examines slavery among people of African descent emphasizing the origins, politics, economics, and legacies of African slavery in the Americas, Asia, the Caribbean, and Africa. ***Colonnade K-SY***

HIST 316. THE AMERICAN CIVIL WAR IN FILM. (3) *Prerequisite: HIST 101 or 102 or HIST 240.* Examination of how the American Civil War has been portrayed in film, including the social , political, and military aspects of the war.

HIST 317. RENAISSANCE EUROPE. (3) *Prerequisites: HIST 101 or 102 or permission of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* A study of the impact of Renaissance culture and thought among various social, intellectual, and political groups in Italian cities and princely courts, and the diffusion of the movement in Western Europe from the thirteenth to sixteenth centuries. ***Colonnade K-SC***

HIST 318. AGE OF THE REFORMATION. (3) *Prerequisites: HIST 101 or 102 or permission of instructor.* A study of the religious reform movements in Europe from the late Middle Ages to the end of the religious wars in 1648, with particular attention paid to the cultural, intellectual, political, and social responses to Reformation ideas.

HIST 320. AMERICAN STUDIES I. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* An interdisciplinary course designed to examine the diverse origins and the decisive elements in the development of American culture. It seeks to provide a wide cultural appreciation and a greater understanding of the mainstream of American thought through the coordinated application of numerous viewpoints drawn from the contributing disciplines of English, Political Science, and History. Equivalent to PS 320. ***Colonnade K-SC***

HIST 321. AMERICAN STUDIES II. (3) *Prerequisite: Junior standing or permission of instructor.* An interdisciplinary course designed to examine the diverse origins and the decisive elements in the development of American culture. It seeks to provide a wide cultural appreciation and a greater understanding of the mainstream of American thought through the coordinated application of numerous viewpoints drawn from the contributing disciplines of English, Political Science, and History.

HIST 322. AGE OF ENLIGHTENMENT. (3) A detailed study of social, political, cultural, intellectual, and economic events from 1648 to 1789 with primary emphasis upon the development of Absolutism during the Old Regime.

HIST 323. THE BRITISH ISLES TO 1688. (3) A study of the British Isles from earliest times through the Medieval and Early Modern periods. Examining the participation both of elites and of ordinary men and women, this course explores the social, cultural, political and economic development of England, Wales, Scotland, and Ireland. Major themes include the early Celts, Roman conquest, religious changes, the establishment of regional kingdoms, the expansion of England, the origins of English constitutional law and Parliament, and the changing relationship with continental Europe.

HIST 324. MODERN BRITAIN SINCE 1688. (3) A study of the British Isles from the end of the seventeenth century to the present. Examining the participation both of elites and of ordinary men and women, this course explores the social, cultural, political and economic developments of the United Kingdom in modern times. Major themes include nationhood and empire, industrialization and class formation, gender relations, the expansion of suffrage and the rise of mass politics, the impact of the World Wars and the Great Depression, the development of the welfare state, Britain's shifting relationship with Europe, and the politics of ethnicity and race in post-colonial Britain. ***Colonnade K-SC***

HIST 325. BLACKS IN THE CIVIL WAR AND RECONSTRUCTION. (3) *Prerequisite: HIST 101 or 102.* Examines black experiences during the Civil War and Reconstruction emphasizing anti-slavery, black soldiers, emancipation, postwar labor, political challenges, and the experiences of women. ***Colonnade K-SC***

HIST 330. HISTORY OF AFRICA BEFORE 1500. (3) *Prerequisite: HIST 101 or HIST 102.* Examines African history chronologically from the origins of humanity to geographical themes within a regional context.

HIST 331. HISTORY OF AFRICA SINCE 1500. (3) *Prerequisite: HIST 101 or HIST 102.* Examines African history chronologically from 1500 to the present with emphasis on major political, economic, social, and geographical themes within a regional context.

HIST 333. HISTORY OF GENOCIDE. (3) *Prerequisite: HIST 101 or HIST 102.* This seminar analyzes and compares the origins, developments, and forms of mass violence and genocide, focusing especially on the 20th century.

HIST 334. NINETEENTH CENTURY EUROPE. (3) A study of political, intellectual, and socioeconomic developments with special emphasis on nationalism, the rise of socialism, and the causes of World War I.

HIST 335. TWENTIETH CENTURY EUROPE. (3) *Prerequisite: HIST 101 or 102 or permission of instructor.* A survey of Europe during the twentieth century that covers developments in social, cultural, political, intellectual and gender history.

HIST 338. RUSSIA TO 1900. (3) A study of the development of Russia from its beginnings to the pre-Soviet era with special emphasis on the centuries of isolation which separated Russia from the mainstream of European development.

HIST 340. HISTORY OF POPULAR CULTURE SINCE 1500. (3) *Prerequisites: HIST 101 or 102 and ENG 100, or permission of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Examines popular culture from 1500 to the present, focusing especially on how popular culture evolved in reaction to social, economic, political, and technological change from local, national, trans-Atlantic and global perspectives. Students engage the questions, debates, methods, and approaches of popular culture history. ***Colonnade K-SC***

HIST 341. A CULTURAL HISTORY OF ALCOHOL. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses; or junior status.* An examination of the role that alcohol plays in historical development among various world cultures over time. Instructor may choose to focus on a specific region and / or time period. ***Colonnade K-SC***

HIST 347. SOCIAL HISTORY OF THE UNITED STATES SINCE 1800. (3) A topical study of the institutions and influences that have shaped American society in the nineteenth and twentieth centuries.

HIST 348. UNITED STATES, 1900-1945. (3) A study of the period 1900-1945, with special emphasis on the Progressive Movement, the Republican era, and the New Deal. Foreign affairs are related to domestic events and policy.

HIST 349. THE UNITED STATES SINCE 1945. (3) A study of all phases of United States history since 1945.

HIST 352. AMERICAN BORDERLANDS AND THE WEST. (3) An exploration of borderlands / frontiers in American history with a particular focus on the trans-Mississippi West in the nineteenth century.

HIST 353. INDIAN PEOPLES OF NORTH AMERICA. (3) *Prerequisite: HIST 240 or 241 recommended, but not required.* A study of the indigenous people of North America from precontact to the present, with an emphasis on Indian peoples in the United States.

HIST 358. BLACKS IN AMERICAN HISTORY TO 1877. (3) A chronological study of African American history and culture from 1619 to 1877 with an emphasis on black contributions to American life and thought.

HIST 359. BLACKS IN AMERICAN HISTORY SINCE 1877. (3) A chronological study of African American history and culture since 1877 with an emphasis on black contributions to American life and thought.

HIST 360. HISTORY OF AFRICA. (3) A survey of the history of sub-Saharan Africa from the earliest times to the present. Equivalent to AFAM 360.

HIST 364. COLONIAL LATIN AMERICA, 1400-1825. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses or junior status.* Political, social and cultural development of Latin America since 1400, focusing on the Maya, Aztec and Inca civilizations, the period of conquest and three centuries of Spanish and Portuguese colonization. ***Colonnade K-SC***

HIST 365. MODERN LATIN AMERICA, 1800-PRESENT. (3) *Prerequisite: 21 hours of Foundations and Explorations courses, or junior status.* A study of the political, social, economic, and cultural development of Latin American republics from their independence in the early 19th century to the present. ***Colonnade K-LG***

HIST 370. MODERN SOUTH ASIA: FROM EMPIRES TO NATIONS. (3) A study of South Asia from the mid-eighteenth century to the present, focusing on the development of colonialism, capitalism, nationalism and feminism. Major topics include the collapse of the Mughal Empire, the rise and fall of the British Raj and the development of the new nations of India, Pakistan and Bangladesh.

HIST 379. GANDHI: THE CREATION OF A GLOBAL LEGACY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* An exploration of the full range of Gandhi's political, spiritual, and moral concerns, beginning with his early years in South Africa and tracing Gandhi's transformation from a local activist to a leader with global influence. ***Colonnade K-LG***

HIST 380. HUMAN RIGHTS IN HISTORY. (3) *Prerequisites: HIST 101 or 102 and 21 hours of Foundations and Explorations Courses, or junior status.* This course examines: the historical origins of human rights, key disputes surrounding the content and legitimacy of human rights, and the enforcement of international humanitarian law in theory and practice. ***Colonnade K-LG***

HIST 390. BLACKS IN THE AMERICAN SOUTH. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Seminar exploring the history and culture of blacks in the American South. Topics will include slavery, resistance, labor, literature, religion, inequality, leadership, and the Civil Rights Movement. ***Colonnade K-SC***

HIST 391. HISTORY OF SPORT. (3) *Prerequisite: HIST 101 or 102 or permission of instructor.* A study of topics and themes in the history of sport, as well as the historical context in which sport evolved.

HIST 402. PIRATES IN WORLD HISTORY. (3) *Prerequisite: HIST 101 or 102 or permission of instructor.* Myths and realities of piracy across the globe and throughout history using movies, novels and historical narratives.

HIST 404. HISTORY OF ANCIENT EGYPT. (3) A study of ancient Egyptian civilization with attention to the rediscovery of ancient Egypt by modern scholars and the development of the discipline of Egyptology.

HIST 407. THE CRUSADES: WEST MEETS EAST. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A study of the idea of holy war and political, social, and cultural interaction in the Mediterranean World from 1000 to 1300. ***Colonnade K-LG***

HIST 419. TUDOR-STUART ENGLAND. (3) A study of the principal political, economic, social, religious, and cultural developments in British history from the beginning of the Tudor dynasty in 1485 to the end of the Stuart dynasty in 1714.

HIST 420. HISTORY OF SEXUALITY. (3) *Prerequisite: HIST 101 or 102 or permission of instructor.* Survey of how past societies and cultures have interpreted human sexual behavior and identities.

HIST 422. THE FRENCH REVOLUTION AND NAPOLEON. (3) A survey of the period 1789 to 1815 with special emphasis on the political, economic, and social events leading to the birth of modern France.

HIST 425. MODERN GERMANY. (3) A survey of German history from the early nineteenth century to the present.

HIST 426. HITLER AND NAZI GERMANY. (3) A detailed study of German history between 1933 and 1945, emphasizing political, economic, social, diplomatic, and military aspects.

HIST 428. ENGLAND SINCE 1914. (3) A detailed study of the political, intellectual, cultural, and socioeconomic developments that transformed England into a welfare state and its empire into a commonwealth of nations.

HIST 430. THE HISTORY OF THE CIVIL RIGHTS MOVEMENT IN AMERICA. (3) *Prerequisites: HIST 101 or 102 or permission of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Survey of the struggle for civil rights and social justice in 20th century America. ***Colonnade K-LG***

HIST 438. TWENTIETH CENTURY RUSSIA. (3) A survey of the decline of Imperial Russia, the age of Revolution, and the maturation of the Soviet state.

HIST 439. RISE AND DECLINE OF COMMUNISM. (3) A study of the origins, development, and decline of international communism.

HIST 440. COLONIAL NORTH AMERICA TO 1763. (3) *Prerequisite: HIST 101 or 102 or permission of instructor.* The background, founding and development of the North American colonies, emphasizing political, social, cultural, and economic institutions.

HIST 441. THE AMERICAN REVOLUTION AND EARLY REPUBLIC, 1763-1815. (3) A study of the origins, progress, and immediate aftereffects of the American Revolution from the Crisis of the 1760s through the War of 1812, including local, regional, and global contexts.

HIST 442. THE AGE OF JACKSON, 1815-1850. (3) A detailed study of social, political, and economic events from the War of 1812 through the War with Mexico.

HIST 443. CIVIL WAR AND RECONSTRUCTION, 1850-1877. (3) A study of the origins and course of the war, including an analysis of military, social, cultural, and diplomatic events, as well as significant developments during the era of Reconstruction. Occasional field trips to Civil War sites.

HIST 444. GILDED AGE AMERICA. (3) A study of American history and culture from the end of Reconstruction to the early twentieth century, emphasizing social, political, cultural, and regional development.

HIST 445. AMERICAN LEGAL HISTORY TO 1865. (3) A survey of the development of American law and its relationship to political, economic, and social trends in antebellum American society.

HIST 446. AMERICAN LEGAL HISTORY SINCE 1865. (3) A survey of the development of American law and its relationship to political, economic, and social trends in modern American society.

HIST 447. HISTORY OF AMERICAN POPULAR CULTURE. (3) *Prerequisite: HIST 101 or 102 or permission of instructor.* Introduction to the central role popular culture has played in United States history and consciousness from the nineteenth century to the present.

HIST 448. AMERICAN BIOGRAPHIES. (3) *Prerequisite: Junior standing.* The lives of famous Americans, the times in which they lived, and the skills of their biographers.

HIST 449. KOREA AND VIETNAM. (3) A detailed study of both the Korean and Vietnam conflicts and how they related to the overall foreign policy of the U.S.

HIST 450. DIPLOMATIC HISTORY OF THE UNITED STATES TO 1898. (3) An analysis of American diplomacy from the colonial period through the Spanish-American War.

HIST 451. DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1898. (3) An analysis of American diplomacy from the Spanish-American War to the present.

HIST 453. AMERICAN WOMEN'S HISTORY. (3) Social, cultural, and political history of American women from pre-colonial times to the present.

HIST 454. HISTORY OF RELIGION IN AMERICA. (3) A survey of the development of religion in America. Among the subjects covered will be the separation of church and state and American civil religion.

HIST 456. KENTUCKY HISTORY. (3) A study of the political, economic, social, and cultural development of the state from pioneer days. Local development is also stressed.

HIST 457. OLD SOUTH. (3) Intellectual, cultural, political, economic, and racial ideologies of the American South, focusing on the period between 1800 and 1860.

HIST 458. NEW SOUTH. (3) Intellectual, cultural, political, economic, and racial ideologies of the American South from the Civil War until the end of the twentieth century.

HIST 460. TRADITIONAL EAST ASIA. (3) A survey of the political, socioeconomic, intellectual, and cultural history of China and Japan from ancient times to 1600.

HIST 461. MODERN EAST ASIA. (3) A survey of the political, socioeconomic, intellectual, and cultural history of China and Japan since 1600.

HIST 462. HISTORY OF THE MIDDLE EAST. (3) A study of the history, religion, and culture of the Middle East from the rise of Islam until the present.

HIST 463. THE ATLANTIC WORLD. (3) *Prerequisites: HIST 101 or 102 or permission of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* A study of the areas touched by the Atlantic Ocean in the period from the 1300s through the early 1800s, focusing on the intersections of African, Native American, and European cultures. ***Colonnade K-LG***

HIST 464. LATIN AMERICA AND THE UNITED STATES. (3) An intensive study of the relations between Latin America and the United States.

HIST 465. THE MEXICAN REPUBLIC. (3) A study of Mexico from 1824 to the present.

HIST 471. MODERN CHINA. (3) A study of the rise of modern China since the seventeenth century, focusing on the decline of the imperial system, the revolutionary struggle, and the triumph of Communism.

HIST 472. MODERN JAPAN. (3) An analysis of Japanese history since 1600 with special emphasis on the forces, events, and personalities that transformed Japan from a feudal to a modern state.

HIST 479. TOPICS IN WORLD HISTORY. (3) An intensive study of a selected world history topic.

HIST 480. A SOCIAL HISTORY OF SCIENCE. (3) A study of the cultural and intellectual impact that science has had on the West with an emphasis on the period since the seventeenth century.

HIST 481. THE RISE AND FALL OF THE CONFEDERACY. (3) *Prerequisites: HIST 101 or 102 and HIST 240, or permission of instructor.* An overview of the Confederate States of America. Topics covered will include nationalism, race, politics, religion and leadership.

HIST 489. COOPERATIVE EDUCATION IN HISTORY. (3) *Prerequisites: Application for or enrollment in Cooperative Education plan, approval of departmental co-op faculty advisor, and development of a Learning Plan. May be repeated once with departmental approval, but only 3 credit hours will count toward history major requirements.* Practical experience in a supervised work station with a cooperating library, museum, archives, or other appropriate organization.

HIST 490. TOPICS IN HISTORY I. (3) A detailed study of selected topics in history.

HIST 491. TOPICS IN HISTORY II. (3) A detailed study of selected topics in history.

HIST 492. HISTORY OF CANADA. (3) A survey of Canada's history and heritage, with special emphasis on Canadian-American relations and interdependency.

HIST 494. U.S. MILITARY HISTORY. (3) *Prerequisites: MIL 301, 302 (for ROTC cadets); junior-senior status for all others.* A study that focuses upon the role of the military in American history. Political, economic, social, and cultural aspects of U.S. history are also covered as they pertain to the military.

HIST 498. SENIOR SEMINAR. (3) A capstone course designed for senior history and social studies majors. This seminar will deal with themes that challenge the student to develop an overview of history.

HIST 499. ADVANCED INDIVIDUAL STUDY. (1-3) *Prerequisite: 3.0 average in at least 21 hours of history.* A research problem or intensive readings directed by a faculty member.

HMD – HOSPITALITY MANAGEMENT AND DIETETICS
DEPARTMENT OF APPLIED HUMAN SCIENCES (HMD)

HMD 150. GOURMET FOODS. (3) An introduction to principles and aesthetics of food preparation characteristic of American and other cuisines of the world. Preparation of food and table service for different types of meal functions are involved. ***Course Fee***

HMD 151. FOOD SCIENCE. (3) Introduction to the study of the basic principles of food science as they apply to food preparation. Application of principles include preparation and evaluation of food products. ***Course Fee***

HMD 152. FOOD SERVICE SANITATION. (1) Examines the causes and prevention of foodborne illness. Identifies hazards in food service operations. The course culminates with a nationally recognized food safety and sanitation exam. (Grading: Pass / Fail).

HMD 171. INTRODUCTION TO MANAGEMENT IN THE HOSPITALITY INDUSTRY. (3) Study of the evolution of the hospitality industry. Organizational systems and management career potentials are examined. Hospitality services are viewed from both consumer and business perspectives.

HMD 201. INTRODUCTION TO DIETETICS. (1) Introduction to dietetics including academic and professional preparation.

HMD 211. HUMAN NUTRITION. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Study of nutrients essential to human life and well-being. Nutrients are studied relative to their function in metabolism, sources in food, and relationship to health. ***Colonnade K-SY***

HMD 251. COMMERCIAL FOOD PREPARATION. (3) *Prerequisite: HMD 151, 152.* Study and application of commercial food preparation processes including selection, storage, presentation of food products, and the effective utilization of resources. ***Course Fee***

HMD 252. HOSPITALITY INFORMATION TECHNOLOGY. (3) *Prerequisite: Restricted to hospitality management and dietetics majors.* Study of computer applications in hotel, restaurant, and tourism management, and dietetics. Specific applications: spreadsheets, word-processing, reservation systems, accounting systems, and nutritional analysis.

HMD 271. TOURISM PLANNING AND DEVELOPMENT. (3) Evaluation of international and domestic travel, tourism, economics, and cultural impact. Examination of tourism management, meeting planning, travel systems, food and lodging systems, and tourist attractions. Students are responsible for any field trip expenses and transportation. .

HMD 275. RESTAURANT & RETAIL MANAGEMENT. (3) *Prerequisite: HMD 151.* Identify and evaluate elements involved in successful concept creation and operation of a restaurant and its affiliated retail. Field trips at student's expense.

HMD 276. LODGING OPERATIONS. (3) *Prerequisites: HMD 171.* Study of hotel and lodging operations, including analyses of the functions of revenue-generating and support departments. Students are responsible for any field trip expenses and transportation.

HMD 313. PRACTICUM IN HOSPITALITY MANAGEMENT. (3-6) *Prerequisites: Sophomore standing.* Supervised work experience in event management and tourism. Practicum sites must be approved by the instructor. Students are required to find their own practicum site and provide their own transportation to the site. Repeatable up to a maximum of six hours.

HMD 340. NUTRITION ASSESSMENT. (3) *Corerequisite: HMD 361.* Application of dietary, anthropometric and biochemical assessment methods for the determination of nutrition status. Includes utilization of the Nutrition Care Process.

HMD 351. HUMAN RESOURCE MANAGEMENT IN THE HOSPITALITY INDUSTRY. (3) *Prerequisite: HMD 251.* Study of management and human resource systems common to the hospitality industry. Case studies, role plays, and simulations are used to examine management and human resource problems unique to hotels, restaurants, and institutions.

HMD 353. MENU PLANNING AND PURCHASING. (3) *Prerequisite: HMD 251.* Study of menu development, including planning and purchasing practices. Students are responsible for any field trip expenses and transportation. .

HMD 354. COST CONTROL IN THE HOSPITALITY INDUSTRY. (3) *Prerequisites: HMD 252.* Study of the financial aspects of hospitality operations to include budgeting, forecasting, financial analysis, and managerial accounting.

HMD 360. ADVANCED NUTRITION. (3) *Prerequisites: HMD 211, BIOL 131, CHEM 107 or CHEM 109.* An in-depth examination of the biochemical and physiological functions of nutrients and their relationships to health and disease. The digestion, absorption, transport, and excretion of nutrients are discussed. Includes the regulation and integration of metabolic pathways.

HMD 361. LIFE STAGE NUTRITION. (3) *Prerequisite: HMD 211, BIOL 131, and CHEM 105 or CHEM 109* .Study of nutritional requirements of individuals throughout the life cycle. Students are responsible for any field experience expenses and transportation.

HMD 362. MEDICAL NUTRITION THERAPY I. (4) *Prerequisites: HMD 361 and CHEM 304 or CHEM 109. Corequisite: HMD 340.* Study of the scientific principles of human nutrition in relation to health and disease. Emphasis is placed on nutritional assessment and planning of nutrition intervention strategies for specific disease conditions.

HMD 364. SPORTS NUTRITION. (3) *Prerequisite: HMD 211.* Includes determination of optimum carbohydrate, protein, fat, vitamins, minerals, and fluid intake of athletes for health and performance; evaluation of supplements and nutrition information for athletes. For those interested in working with athletes and their diets.

HMD 367. NUTRITION IN AGING. (3) *Prerequisite: HMD 211 or permission of the instructor.* Explores the nutritional requirements of individuals throughout the aging process. Students are responsible for any field trip expenses and transportation.

HMD 368. DIETARY AND HERBAL SUPPLEMENTS. (3) *Prerequisite: HMD 211.* Current topics related to dietary supplements. Regulatory guidelines and issues related to production, marketing, safety, and efficacy are addressed.

HMD 373. HOSPITALITY AND TOURISM MARKETING. (3) *Prerequisites: HMD 271.* Examines the scope and implementation of specialized marking activities across a range of organizations in the hospitality and tourism industry.

HMD 375. MEETING AND CONVENTION MANAGEMENT. (3) *Prerequisite: HMD 271 and junior standing.* Examines planning and management of conventions, meetings, trade shows and exhibitions. Students are responsible for any field experience expenses and transportation.

HMD 378. LEGAL ENVIRONMENT OF HOSPITALITY AND TOURISM. (3) *Prerequisites: HMD 271 and junior standing.* Study of legal aspects of hospitality and tourism operations including legal relationships with guest and other patrons, food and beverage liability, employment, negligence and contracts.

HMD 410. INTERNSHIP IN HOSPITALITY MANAGEMENT. (3-6) *Prerequisites: Junior standing or permission of the instructor.* Supervised work experience in hospitality management and tourism. Internship sites must be approved by the instructor. Students are required to find their own internship site and provide their own transportation to the site. Repeatable up to a maximum of six hours.

HMD 452. QUALITY AND SERVICE MANAGEMENT. (3) *Prerequisites: HMD 251.* In-depth investigation of management theories, leadership, and incorporating quality-service principles. Students are responsible for any field experience expenses and transportation.

HMD 459. SENIOR SEMINAR IN HOSPITALITY MANAGEMENT AND DIETETICS. (1) *Prerequisites: HMD major and senior standing.* Course focuses on professional career development. Students are responsible for any field experience expenses and transportation. (Grading: Pass / Fail)

HMD 461. APPLICATION OF NUTRITION THEORY AND RESEARCH. (3) *Prerequisite: HMD major and senior standing.* Provides the student with evidence-based research knowledge and skills in dietetic practice.

HMD 462. MEDICAL NUTRITION THERAPY II. (4) *Prerequisite: HMD 362.* Continued study of the analysis of the scientific principles of human nutrition in relation to health and disease. Emphasis is placed on intervention strategies for specific disease conditions and disorders. Includes laws, regulations and standards related to dietetic practice.

HMD 464. PRACTICUM IN DIETETICS. (3) *Prerequisite: HMD 362.* Supervised dietetics-related field experience. Practicum sites must be approved by the instructor. Students are responsible for field experience expenses and transportation.

HMD 465. COMMUNITY NUTRITION. (3) *Prerequisite: HMD 361 and senior standing.* Review of community resources, delivery of nutrition education and counseling in diverse populations. Students are responsible for any field experience expenses and transportation.

HMD 470. ADVANCED LODGING MANAGEMENT. (3) *Prerequisites: HMD 276.* Study of ethical decision making, risk management, preparation and analysis of financial information, feasibility studies and trends in the lodging industry.

HMD 471. FOOD SERVICE OPERATIONS MANAGEMENT. (3) *Prerequisites: HMD 251 and senior standing.* Study and application of principles of food service operations. Students are responsible for any field trip expenses and transportation. .

HMD 472. STRATEGIC MANAGEMENT IN THE HOSPITALITY INDUSTRY. (3) *Prerequisites: HMD 373 and senior standing;* Identification of problems, solutions, and the implementation of effective business and corporate strategies. Students are responsible for any field experience expenses and transportation.

HMD 473. BEVERAGE MANAGEMENT. (3) *Prerequisites: HMD 251 and HMD 275 or permission of instructor. Must be 21 years of age with valid ID.* Management of beverage operations, including alcoholic and non-alcoholic beverages; risk-liability management; staff training and responsible customer service; beverage pricing and cost control; and food and beverage pairings. Field trips / travel at student's expense.

HMD 475. ADVANCED HOSPITALITY EVENT PLANNING. (3) *Prerequisites: HMD 375.* Identification of various elements involved in successful planning of hospitality events. Students will learn how to design, plan, and evaluate professional events. An event planning project will be required for successful completion of the course. Field trips at student's expense.

HMD 476. GLOBAL CUISINE. (3) Exploration of cuisines, customs, and culture from regions of the world. Experiential exploration of food and culture taught in a travel and a cooking learning environment. The laboratory component includes preparation of a variety of international recipes. Regions vary per term. Field trips / travel at student's expense.

HON – HONORS
POTTER COLLEGE OF ARTS & LETTERS

HON 105. READING THE WORLD: CONTEMPORARY CULTURAL LITERACY. (1) *Prerequisites: 3.2 GPA or permission of instructor.* Intensive weekly discussion and contextualization of current events, with a view to preparing students for future national and international scholarship competitions. Students will be evaluated on the basis of their engagement in discussion and quality of a final essay written in the style of a major scholarship application.

HON 175. HONORS UNIVERSITY EXPERIENCE-LEADERSHIP. (3) *Prerequisites: For beginning college freshmen or transfer students with fewer than 24 hours of credit who are accepted into the Honors College.* Topics include advanced study skills, critical thinking skills, explorations of majors and careers, degree programs, campus resources and personal development. Special attention is given to educational requirements and opportunities within the University Honors College, leadership education, and developing leadership behaviors and skills.

HON 250. HONORS PRACTICUM I. (3) *Prerequisite: Good standing in the Honors College.* First semester course offering a supervised, practical experience for honors students.

HON 251. CITIZEN AND SELF. (1-3) *Prerequisites / Corequisites: Good standing in the Honors College or Honors eligibility (minimum 3.2 GPA).* A focus on the theoretical knowledge and practical skills that will lay the foundation for becoming an effective citizen. Students will participate in large group lecture and small group seminars.

HON 275. HONORS INTERNSHIP I. (3) *Prerequisite: Good standing in the Honors College.* First semester course offering practical experience for honors students in a supervised work situation with a cooperative organizations, agency, or entity.

HON 350. HONORS PRACTICUM II. (1-3) *Prerequisites / Corequisites: HON 250 and good standing in the Honors College.* Second semester course offering a supervised, practical experience for honors students.

HON 375. HONORS INTERNSHIP II. (3) *Prerequisites / Corequisites: HON 275 and good standing in the Honors College.* Second semester course offering practical experience for honors students in a supervised work situation with a cooperative organization, agency, or entity.

HON 402. CE / T PROPOSAL WRITING COURSE. (1) *Prerequisites: ENG 100; Honors College student or instructor's permission*. Assistance in formulating and writing a Capstone Experience / Thesis (CE / T) proposal.

HON 490. SPECIAL TOPICS. (3) A detailed study of selected topics. May be repeated once for credit.

COLLOQUIA

HON 300. HONORS COLLOQUIUM. (1-4) Honors colloquia are interdisciplinary in nature, and emphasize student-directed learning. Students participate in and lead discussions on various aspects of the broad topic, and select specify issues on which to base analytical writing projects.

HON 301. HONORS COLLOQUIUM. (1-4) Honors colloquia are interdisciplinary in nature, and emphasize student-directed learning. Students participate in and lead discussions on various aspects of the broad topic, and select specify issues on which to base analytical writing projects.

INDEPENDENT RESEARCH

HON 203. INDEPENDENT RESEARCH. (1-3) Independent research allowing students to engage in research, creative activities, or in-depth study of a topic under the direction of a faculty member.

HON 303. INDEPENDENT RESEARCH. (1-3) Independent research allowing students to engage in research, creative activities, or in-depth study of a topic under the direction of a faculty member.

HON 403. HONORS THESIS / PROJECT I. (1-3) First three credit hours of 6-hour Capstone Experience / Thesis Project (CE / T).

HON 404. HONORS THESIS / PROJECT II. (1-3) *Prerequisite: HON 403.* Final three credit hours of 6-hour Capstone Experience / Thesis Project (CE / T).

HORT – HORTICULTURE
DEPARTMENT OF AGRICULTURE

HORT 209. FLORAL DESIGN. (3) Principles and elements of floral design; the use of floral materials, design techniques, and elements including line, form, texture and color; emphasis on the history and use of floral art in business and society. ***Course Fee***

HORT 301. INTRODUCTION TO LANDSCAPE PLANTS. (2) *Corequisite: HORT 302. Prerequisite: AGRO 110.* Identification, recognition and use of deciduous trees, shrubs and herbaceous plants in the landscape. Introduction to evergreen shrubs and trees as well as fall flowering bulbs and perennials are included.

HORT 302. INTRODUCTION TO LANDSCAPE PLANTS LABORATORY. (1) *Corequisite: HORT 301.* A laboratory course correlated with HORT 301.

HORT 304. LANDSCAPE MAINTENANCE. (2) *Corequisite: HORT 305. Prerequisite: AGRO 110.* Maintenance of landscape plants including trees, shrubs, annuals, perennials, and turf; proper use of equipment, fertilizers, and pesticides. Landscape maintenance business practices are included.

HORT 305. LANDSCAPE MAINTENANCE LABORATORY. (1) *Corequisite: HORT 304.* A laboratory course correlated with HORT 304.

HORT 309. ADVANCED FLORAL DESIGN. (3) *Prerequisite: HORT 209.* Advanced principles of floral design as applied to a commercial floral shop enterprise. Production cost and profit analysis, selling, techniques and customer relations are considered concurrently with design. ***Course Fee***

HORT 312. INTRODUCTION TO HORTICULTURE. (3) *Prerequisite: AGRO 110.* Emphasis is given to principles of growth, development and management of major horticulture plants. Special consideration is given to major horticultural crops of Kentucky.

HORT 313. TURFGRASS MANAGEMENT. (3) *Prerequisite: AGRO 110 or permission of instructor.* A study of turfgrass, including adaption, identification, uses and fundamental principles essential for establishing and maintaining quality turf in lawns and recreation areas.

HORT 316. GREENHOUSE MAINTENANCE AND OPERATION. (2) Structures, equipment, and maintenance of greenhouse facilities and an introduction to basic techniques for growing floriculture crops.

HORT 317. GREENHOUSE MAINTENANCE AND OPERATION LABORATORY. (1) *Corequisite: HORT 316.* A laboratory course correlated with HORT 316.

HORT 330. WEDDING FLORAL DESIGN. (3) *Prerequisite: HORT 209.* Principles and elements of floral design as applied to wedding planning and design. Includes production cost and profit analysis and marketing techniques. ***Course Fee***

HORT 340. COMMERCIAL FLORICULTURE PRODUCTION. (3) *Prerequisites: HORT 316 and 317.* Commercial greenhouse production of floriculture crops, focusing on the production of bedding plants, potted flowering plants, foliage plants and other miscellaneous crops.

HORT 401. LANDSCAPE PLANTS II. (2) *Prerequisite: HORT 301 or permission of instructor. Corequisite: HORT 402.* Identification, recognition and use of landscape plants; with emphasis on evergreens, annuals, perennials and bulbs, winter effect and flowering sequence of deciduous trees and shrubs will be included.

HORT 402. LANDSCAPE PLANTS II LABORATORY. (1) *Corequisite: HORT 401.* A laboratory course correlated to HORT 401.

HORT 403. LANDSCAPE DESIGN AND CONSTRUCTION. (2) *Prerequisite: HORT 402 or permission of instructor. Corequisite: HORT 404.*Design of residential and commercial landscapes; techniques and materials for construction of landscape features such as decks, patio covers, walls, patios, pools, and irrigation are presented.

HORT 404. LANDSCAPE DESIGN AND CONSTRUCTION LABORATORY. (1) *Corequisite: HORT 403.* A laboratory course correlated with HORT 403.

HORT 405. NURSERY MANAGEMENT. (2) *Prerequisite: AGRO 110. Corequisite: HORT 406.* An introduction to the organization and management of a landscape plant nursery for container and field grown stock. Students will design and plan a working nursery for south central Kentucky.

HORT 406. NURSERY MANAGEMENT LABORATORY. (1) *Corequisite: HORT 405.* A laboratory course correlated with HORT 405.

HORT 407. PLANT PROPAGATION. (2) *Prerequisite: AGRO 110. Corequisite: HORT 408.* Plant propagation is studied and practiced as an art and a science. Sexual and asexual techniques include propagation by seed, cuttings, grafting, layering, division and tissue culture.

HORT 408. PLANT PROPAGATION LABORATORY. (1) *Corequisite: HORT 407.* A laboratory course correlated with HORT 407.

HORT 412. MODERN FRUIT PRODUCTION. (3) *Prerequisite: AGRO 110.* Production, harvesting, post-harvesting handling and marketing of the major tree and small fruit of the temperate region. Emphasis is given to those crops adaptable to Kentucky.

HORT 419. VEGETABLE PRODUCTION. (3) *Prerequisite: AGRO 110 or permission of instructor.* Production of vegetables that are particularly suited for Kentucky, considering variety selection, culture, harvesting, processing, and marketing.

HORT 420. FLORAL SHOP MANAGEMENT. (3) *Special requirements: Enrollment restricted to students seeking a minor in floristry. Permission of instructor is required.* Principles of floral shop management, including sourcing, purchasing, distributing, marketing, and selling floriculture products. This course is restricted to students with a Floristry minor.

HORT 426. VITICULTURE. (3) *Prerequisites: AGRO 110 and AGRO 350 or permission of instructor.* An introductory study of grape culture including morphology and growth habit, geographical distribution, dormant pruning techniques, canopy management, management of grapevine pests, and vineyard establishment / maintenance. Students must arrange their own travel to the field site.

HORT 475. SELECTED TOPICS IN AGRICULTURE. (1-3) *Prerequisite: Consent of instructor.* Special topics acquaint advanced undergraduate students with scientific developments of current interest in agriculture. Appropriate topic titles are assigned. Lecture and assignments vary with credit. May be repeated with change in content.

HUM – Humanities
Potter College of Arts & Letters

ANCIENT GREECE AND ROME

HUM 191. FINE ARTS OF ANCIENT GREECE AND ROME. (3) A study of classical painting, sculpture, and architecture.

HUM 192. LITERATURE AND DRAMA OF ANCIENT GREECE AND ROME. (3) This course includes the works of the Greek tragedians, Homer, Aristophanes, and Vergil.

HUM 193. PHILOSOPHY AND RELIGION OF ANCIENT GREECE AND ROME. (3) A survey of the Greek gods and such philosophers as Socrates, Plato, Aristotle, and Augustine.

MEDIEVAL AND RENAISSANCE EUROPE

HUM 171. FINE ARTS OF MEDIEVAL AND RENAISSANCE EUROPE. (3) A study of art and architecture in the Middle Ages and Renaissance which includes the great cathedrals and the Renaissance masters.

HUM 172. LITERATURE OF MEDIEVAL AND RENAISSANCE EUROPE. (3) A literary survey of the Middle Ages and Renaissance, which includes Beowulf, Chaucer, Dante and Shakespeare.

HUM 173. PHILOSOPHY AND RELIGION OF MEDIEVAL AND RENAISSANCE EUROPE. (3) A study of the major philosophical and religious developments from St. Augustine through the Reformation.

MODERN WESTERN WORLD

HUM 181. FINE ARTS OF THE MODERN WESTERN WORLD. (3) A study of painting, sculpture, and architecture from the late eighteenth century to the present.

HUM 182. LITERATURE OF THE MODERN WESTERN WORLD. (3) This course surveys the great literary works of the past two centuries in the West.

HUM 183. PHILOSOPHY AND RELIGION OF THE MODERN WESTERN WORLD. (3) A study of philosophical and religious developments in the contemporary period.

HUM 240. GEOMETRY IN ART AND ARCHITECTURE. (3) *Prerequisite: Any Colonnade Foundations MATH course with a B or better; 21 hours of Foundations and Explorations Courses, or junior status.* Euclidean geometry with historical applications in art and architecture, such as tiling, circular and spiral designs, designs of the great cathedrals in Europe, Buddhist stupas in Asia, Islamic art, the development of visual perspective, and musical ratios. Equivalent to MATH 240. ***Colonnade K-SY***

ID – Instructional Design
School of Teacher Education

ID 460. INTRODUCTION TO INSTRUCTIONAL DESIGN. (3) Systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field; adapt and apply the instructional design (ID) process in a flexible and innovative manner.

ID 465. ANALYSIS AND DESIGN OF TRAINING. (3) *Prerequisites: Junior standing or instructor approval. Prerequisite or Corequisite: ID 460.* Foundational information and activities to develop the skills necessary to analyze learners, learning context and skills, and design learning activities.

ID 470. DEVELOPMENT AND EVALUATION OF TRAINING. (3) *Prerequisites: ID 460 and 465 or instructor approval.* Foundational information and activities to develop, evaluate, and revise training activities.

ID 475. INTERACTIVE MULTIMEDIA FOR TRAINING. (3) *Prerequisites: ID 460 and 465 or instructor approval. Prerequisite or Corequisite: ID 470.* Application of multimedia design principles in training settings. Students will design and develop a prototype for a multimedia instructional or training module in a specified context.

IDFM – Interior design and Fashion Merchandising
Department of Applied Human Sciences

IDFM 100. INTRODUCTION TO HOUSING AND INTERIOR DESIGN. (3) Introduction to interior design as it relates to housing environments and residential furnishings and equipment. Focuses on consumer-related information and services. Includes layout and design opportunities. This course for non-Interior Design majors only.

IDFM 101. FOUNDATIONS OF INTERIOR DESIGN. (1) An exploration of the interior design profession including its many aspects and challenges, the required and continuing education, identification of the role of the interior designer, and career options.

IDFM 120. VISUAL DESIGN I. (3) Introduction to the fundamentals of visual design and techniques of representation through exploration of the elements and principles of design, the design process, English language arts and conceptual sketching. Individual work, teamwork and presentation skills will be emphasized.

IDFM 131. BASIC APPAREL CONSTRUCTION. (3) Study of basic principles of apparel construction. Concepts include pattern, fabric, and equipment selection. Students experiment with construction techniques. Laboratory. ***Course Fee***

IDFM 132. PERSPECTIVES OF DRESS. (3) An introduction to the fashion industry and the motivational factors influencing clothing choices. Dress is considered from psychological, socioeconomic, and design perspectives.

IDFM 151. SURVEY OF ARCHITECTURE AND INTERIORS I. (3) An introduction to the study of styles in architecture and interiors from ancient times through the 18th century. Emphasis is placed on furniture and furnishings and the interface between architecture and interior space.

IDFM 152. SURVEY OF ARCHITECTURE AND INTERIORS II. (3) An introduction to the study of styles in architecture and interiors from the 18th century to present time. Emphasis is placed on French, English, and American styles and the international movements from which contemporary styles have emerged.

IDFM 201. INTERIOR DESIGN STUDIO I. (4) *Corequisites: IDFM 120 and IDFM 243.* Study of the principles of spatial design expressed by two-and-three-dimensional representation. Problem solving through elements of form, space and color.

IDFM 221.VISUAL DESIGN II. (3) *Prerequisite: IDFM 120.* Exploration of the conveyance of ideas and information expressed with two-dimensional images through the use of electronic resources.

IDFM 222. CAD IN HUMAN ENVIRONMENT. (3) Computer aided design and drafting using AutoCAD. Practical applications in interior design and apparel merchandising are addressed through projects.

IDFM 223. TEXTILES. (3) A general study of textiles with emphasis on factors that affect the hand, appearance, and performance in clothing and furnishing use. Examination of the fibers, yarns, dyeing, printing and finishing, performance and care. Lecture with lab.

IDFM 226. FASHION ILLUSTRATION. (3) *Prerequisites: IDFM 132 or permission of the instructor.* Survey of industry methods for communicating design concepts and presenting finished products. Emphasis is on application of basic sketching and rendering skills for use in the fashion industry.

IDFM 231. TEXTILE AND APPAREL QUALITY ANALYSIS. (3) *Prerequisites: IDFM 131 (or demonstrated proficiency), IDFM 223.* Evaluation of textile and apparel quality and performance. Emphasis on sewn products from the perspective of the manufacturer, retailer, and consumer. Laboratory; field experiences.

IDFM 243. MATERIALS AND FINISHES FOR INTERIOR DESIGN. (3) *Corequisite: IDFM 201.* Analysis of properties and uses of materials specified by interior designers. Major concepts and processes include standards of performance, quantity and cost estimating, and specification writing. Field trips at student's expense.

IDFM 244. DIGITAL DESIGN TOOLS. (3) *Prerequisite: IDFM 120 or permission of instructor.* Introduction to the use of computer software such as Photoshop Elements, Snap Fashion, Sketch-up and AutoCAD for the visual communication of design ideas.

IDFM 300. INTERIOR DESIGN STUDIO II. (4) *Prerequisites: IDFM 201, 243. Corequisite: IDFM 222.* Investigation into understanding of conceptual, spatial principles applicable to interior design; development of two- and three-dimensional representation techniques and application of color theory.

IDFM 301. INTERIOR DESIGN STUDIO III. (4) *Prerequisite: IDFM 221, 222 & 300. Corequisite: IDFM 304, 344, & 427.* Integration of basic building systems with conceptual, organizational, and spatial principles of design to create complete interior environments. ***Course Fee***

IDFM 302. NTERIOR DESIGN STUDIO IV. (4) *Prerequisite: IDFM 301.* Non-residential design problems of intermediate complexity with emphasis on application of advanced programming and life safety issues. ***Course Fee***

IDFM 304. LIGHTING AND ENVIRONMENTAL CONTROLS. (3) *Corequisite: IDFM 301.* Principles of mechanical systems of buildings including the electrical system, ventilation system, plumbing system, HVAC systems. Students will properly execute the design criteria, supervise and collaborate with building trades and competently implement proper materials and mechanical systems in the working drawings.

IDFM 308. DESIGN AND THE HUMAN LIFE CYCLE. (3) Exploration of the principles of anthropometrics, universal design and Americans with Disabilities codes used by Interior Designers to create environments in residential and public buildings that contributes to inclusion, safety, and emotional well-being of the user.

IDFM 313. PRACTICUM IN INTERIOR DESIGN FASHION MERCHANDISING. (3) *Prerequisite: Permission of instructor.* Supervised practicum experience. Students perform professional functions with pre-approved cooperating business. Field experience. Transportation at student's expense.

IDFM 321. PROFESSIONAL ETHICS & ISSUES SEMINAR. (3) *Prerequisite: Junior Standing.* Interdisciplinary study of social trends, professional issues, and professional ethics impacting careers. Focus is on professional development strategies and resolution of ethical dilemmas both in the job search and within the workplace.

IDFM 322 MERCHANDISING I FOR IDFM. (3) *Prerequisites: IDFM 132, MKT 220.* Study of the principles of merchandising design, apparel and textile products with emphasis on the buying function and using merchandise calculations.

IDFM 332. HISTORY OF 20TH CENTURY FASHION. (3) *Prerequisite: IDFM 132.* Survey of American and European fashions from 1900 to present as they reflect social, economic, and cultural influences. Application to current fashion analysis, re-enactment apparel, and artifact identification.

IDFM 333. FASHION FUNDAMENTALS. (3) *Prerequisites: IDFM 132, MKT 220.* Survey of the fashion industry. Major topics include design, production, marketing and apparel management. Current trends in fashion design and merchandising are identified and analyzed.

IDFM 335. APPAREL DESIGN PRODUCTION. (3) *Prerequisite(s): IDFM 221, IDFM 131.* Overview of fashion industry sectors and business strategies in the planning, creation, production, merchandising, and distribution of fashion brands.

IDFM 344. DIGITAL RENDERING FOR INTERIORS. (3) *Prerequisites: IDFM 222 and IDFM 300. Corequisite:* IDFM 301. Introduction to computer-aided 3-D modeling using AutoCAD and 20/20 CAP Design Studio software plug-in. Computer-aided visual communication techniques will be introduced as tools in the design/problem-solving process.

IDFM 360. KITCHEN & BATH DESIGN STUDIO (3) *Prerequisites / Corequisites / Special Requirements: IDFM 222 and IDFM 300.* Examination of the technical aspects and accessibility issues of designing kitchens. Development of drawings for the kitchen & bath including floor plans, electrical and lighting plans, elevations, and cabinet sections using ANSI (American National Standards Institute) guidelines and graphic presentation standards.

IDFM 400. SPECIAL PROBLEMS IN INTERIOR DESIGN. (3) *Prerequisite(s): IDFM 302, IDFM 344 & IDFM 427.* Independent interior design research and projects that reach beyond the current course offerings into areas of more advanced study and techniques.

IDFM 401. INTERIOR DESIGN STUDIO V. (4) *Prerequisites: IDFM 302. Corequisite: IDFM 403.* Non-residential design problems of advanced complexity integrating previous experiences and applying office practices to the process of design. ***Course Fee***

IDFM 402. SENIOR DESIGN THESIS. (4) *Prerequisites: IDFM 401, 403, and 410.* A mixed-use capstone project which requires students to develop a design solution with an increased amount of technical support data and design detailing. Guest speakers and field trips may supplement instruction. Students are responsible for their own transportation. ***Course Fee***

IDFM 403. BUSINESS PRINCIPLES AND PRACTICES FOR INTERIOR DESIGN. (2) *Corequisite: IDFM 401.* Study of the business, legal, and financial considerations of the practicing designer. Major topics include business formation, project analysis and management, contracts, compensation, and government regulations and codes.

IDFM 410. IDFM INTERNSHIP. (3) *Prerequisite: IDFM 302 or 334, and IDFM 321.* Students perform professional functions in an appropriate establishment. (Note: application and copy of undergraduate program must be submitted to coordinator of the Internship Program one complete semester prior to the semester a student plans to do the internship. A 2.5 grade point average in professional courses is required for eligibility.) Repeatable to maximum of 6 hours.

IDFM 421. PORTFOLIO DESIGN. (3) *Prerequisites: IDFM 302 or IDFM 334, and IDFM 321.* Development of a design portfolio as essential ingredient of job search and application to graduate school for all design professions. Includes audit, analysis and assembly of portfolio to demonstrate individual talent and qualifications. Input from industry professionals. Covers digital techniques and World Wide Web promotion.

IDFM 422. TEXTILE DESIGN AND PERFORMANCE. (3) *Prerequisites: IDFM 120, IDFM 221 and IDFM 223.* Analysis of creativity in historic and contemporary textile designs and techniques. Students experiment and create textile designs and colorways appropriate for specific design applications and end product categories. ***Course Fee***

IDFM 423. HUMAN ENVIRONMENT STUDY TOUR. (3) *Prerequisite: Consent of instructor.* Travel to fashion and design centers to gain firsthand knowledge concerning design, production, marketing, and promotion of textiles, clothing, and home furnishings. Field trips at student's expense. Repeatable for a total of 6 hours of credit.

IDFM 424. HISTORIC TEXTILES. (3) *Prerequisite: IDFM 223.* A study of decorative fabrics and the history of textile design from ancient times through contemporary production. Understanding cultural diversity as reflected in textile artifacts of major cultures of the world is the major focus. Field trips required at student's expense.

IDFM 426. FASHION DESIGN MARKET TRENDS. (3) *Prerequisites: Student must have completed at least two courses in IDFM, have junior or senior standing, and approval of instructor.* Study of a major market for fashion apparel, textiles, or interior design products. In-class seminars will precede and follow field work experience at a major market for apparel, interior design, or related businesses. Travel to market site at student's expense.

IDFM 427. VISUAL DESIGN III. (3) *Prerequisites: IDFM 221, IDFM 222.* Advanced application of the conveyance of ideas and information expressed with two-dimensional images through the use of electronic resources.

IDFM 431. CLOTHING AND HUMAN BEHAVIOR. (3) *Prerequisites PSY / PSYS 100 or SOCL 100 and junior standing and 21 hours of Foundations and Exploration courses.* Study of dress and adornment in relation to human behavior. Clothing and appearance are explored in relation to the self, to interpersonal communication, and to collective behavior in social, cultural, and historical contexts. ***Colonnade K-SC***

IDFM 432. VISUAL MERCHANDISING AND PROMOTION. (3) *Prerequisites: IDFM 120, IDFM 221 and IDFM 334.* Study of the principles and practices of fashion promotion. Includes supervised experience working with visual merchandising and fashion-related events using merchandise from retail stores.

IDFM 433. FASHION SYNTHESIS. (3) *Prerequisites: IDFM 333 and IDFM 334.* A multi-functional team approach to creative problem solving and development of apparel and related products and services. Includes application, evaluation, presentation, and synthesis of merchandising, design, and production processes. Laboratory and field trips. ***Course Fee***

IDFM 434. HISTORY OF COSTUME. (3) Study of costume from selected historic periods. Students are required to analyze socioeconomic influences on clothing. Field experiences.

IDFM 436. GLOBAL APPAREL MERCHANDISING. (3) *Prerequisites / co-requisites: IDFM 333 or permission of instructor.* Evaluation of the key issues facing textiles and apparel businesses operating supply chains and sourcing in the global economy considering economic, political, and social perspectives and professional implications.

IDFM 438. MERCHANDISING II FOR IDFM. (3) *Prerequisite: IDFM 331 and IDFM 322.* Study of the principles of effective fashion merchandising. Students apply learning experiences to store design and layout, management patterns, fashion promotion, and financial control.

IDFM 444. ENVIRONMENTAL PRODUCT DESIGN AND DEVELOPMENT. (3) *Prerequisite: IDFM 344.* A study of emerging technologies and environmental issues confronting consumers and designers of the near environment, including housing, apparel, leisure, and workspaces. Major emphasis is on alternative design forms, energy-conscious design, and energy effectiveness of products and spaces. Possible field trips at student's expense.

IDFM 446. RESTORATION OF HISTORIC INTERIORS. (3) This course focuses on design and other aspects of interior historic restoration of both academic and vernacular structures. Attention is focused on aesthetic issues of designing domestic and commercial historic interiors for restoration or adaptive reuse.

IDFM 448. INTERIOR ILLUSTRATION. (3) Development of advanced skills in design illustration and presentation. Emphasis is on fast techniques for color rendering.

IDFM 449. DESIGN HUMANICS. (4) *Prerequisites: IDFM 300, AMS 163, or IDFM 222.* Research and application of design theory to a design project. Student will prepare design documents from conceptual diagrams, preliminary design, and code analysis to final presentation.

IDST – INTERDISCIPLINARY STUDIES
SCHOOL OF PROFESSIONAL STUDIES

IDST 200. INTERDISCIPLINARY STUDY AWAY EXPERIENCE. (1) *Corequisite: NSEA-999 or NSEB-999 (exchange holding course).* This course examines the Study Away experience through face-to-face and online interactions during a semester-long Study Away program. Repeatable up to 3 times for credit.

IDST 250. PRIOR LEARNING PORTFOLIO DEVELOPMENT. (1-3) *Prerequisite: Permission of instructor.* Leads students through the development of a portfolio demonstrating prior college-level knowledge and skills in academic areas. Portfolio may be evaluated for academic credit not to exceed one-fourth of the major / minor nor one-fourth of the credit hours required for the credential. Repeatable up to twice for a maximum of 3 hours. ***Course fee***

IDST 350. INTERDISCIPLINARY STUDIES STUDY ABROAD. (1-6) *Prerequisite: Consent of instructor.* Supervised study of interdisciplinary studies in a study abroad program. May be repeated for a maximum of 6 hours.

IDST 369. CAREER RELATED FIELD EXPERIENCE. (1-3) *Prerequisites: Junior or senior standing with a declared major. Instructor permission is required*. Supervised work experience related to a student's field of study or career goals within a cooperating business, industry, or agency. Course will include career-related learning activities and projects. Students are responsible for all internship-related transportation and travel. Students may repeat twice for a maximum of three total hours.

IDST 375. SEMINAR IN PEER MENTORING. (3) *Prerequisites: UC 175 or equivalent, junior standing and instructor permission.* An introduction to effective mentoring techniques including an examination of mentoring theories and styles.

IDST 376. PRACTICUM IN PEER MENTORING. (1) *Prerequisites: UC 375 with a grade of "B" or higher and instructor permission.* Supervised mentoring experience in appropriate first year student setting. (Grading: Pass / Fail)

IDST 390. APPLICATIONS OF INTERDISCIPLINARY STUDIES. (3) *Prerequisite: Junior standing or permission of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Application of interdisciplinary studies model to an overarching cultural concern or theme. Students will apply knowledge from different areas of study toward a specified research topic. ***Colonnade K-SC–***

IDST 395. INVESTIGATIVE METHODS IN INTERDISCIPLINARY STUDIES. (3) *Prerequisite: Junior standing or permission of instructor.* A comprehensive exploration of different approaches to interdisciplinary studies as an academic research discipline or method.

IDST 399. SPECIAL TOPICS IN INTERDISCIPLINARY STUDIES. (3) *Prerequisite: Junior standing or permission of the instructor.* A detailed study of selected topics in interdisciplinary studies that lend themselves to interdisciplinary problem solving. Course may be repeated with different topics up to a maximum of 6 credit hours.

IDST 495. INTERDISCIPLINARY STUDIES CAPSTONE. (3) *Prerequisites: BIS major (558), senior standing, IDST 395, or permission of the instructor.* Examination of interdisciplinary scholarship and problem-solving, with application based on students' area of emphasis in the major.

IDST 499. IDST CAPSTONE EXPERIENCE. (1) *Prerequisites: Senior standing and General Studies Advisor approval.* Independent study requiring development of integrative project. Students must make arrangements in advance for supervision by a faculty member.

IECE – INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION
SCHOOL OF TEACHER EDUCATION

IECE 320. INTRODUCTION TO EARLY CHILDHOOD ASSESSMENT. (3) *Prerequisite: SPED 331.* Develop knowledge and skills of assessment with young children with and without disabilities and their families. Minimum of 30 hours of field experience required.

IECE 321. FAMILY SUPPORTS AND SERVICES. (3) *Prerequisites: SPED 330; or instructor permission.* Application of family systems theory. The development of family plans and the implementation of family-centered services is stressed. Minimum of 25 hours of field experiences; students are responsible for arranging their own transportation.

IECE 322. PLANNING CURRICULUM AND INSTRUCTION FOR DIVERSE LEARNERS. (3) *Prerequisites: SPED 331; or instructor permission.* Planning for curriculum and instruction of children birth through five years who are culturally and linguistically diverse or who have developmental delays and disabilities.

IECE 323. POSITIVE BEHAVIORAL SUPPORTS WITH YOUNG CHILDREN. (3) *Prerequisites: IECE 321; or instructor permission*. Knowledge and skills necessary for applying the principles of positive behavioral supports with young children. Field experience is required; students are responsible for their own transportation.

IECE 324. ADVANCED ASSESSMENT OF YOUNG CHILDREN. (3) *Prerequisites: SPED 331 and IECE 320.* Advanced training to develop assessment skills with children from birth to primary age, with and without disabilities, and their families. Minimum of 30 hours of field experiences; students are responsible for their own transportation.

IECE 325. PARTNERSHIPS WITH FAMILIES. (3) *Prerequisites: SPED 331; or instructor permission.* Strategies that early childhood educators employ to develop active partnerships with families. Field experience is required. Students are responsible for their own transportation.

IECE 326. INTEGRATING MATHEMATICS AND SCIENCE ACROSS THE EARLY CHILDHOOD CURRICULUM. (3) *Prerequisites: SPED 331; or instructor permission.* Methods for active involvement of young children in the areas of mathematics and science in developmentally appropriate ways. Field experience is required; students are responsible for their own transportation.

IECE 421. ADVANCED CURRICULUM AND INSTRUCTION FOR INFANTS AND TODDLERS. (3) *Prerequisites: FACS 295; or instructor permission.* Implementation of curriculum and instruction of children birth through two years, both with and without disabilities, and their families will be addressed. Students will be prepared to implement services in both home and center-based settings. Field experience is required; students are responsible for their own transportation.

IECE 422. ADVANCED CURRICULUM DEVELOPMENT FOR YOUNG CHILDREN. (3) *Prerequisites: FACS 296; or instructor permission.* Advanced preparation in planning, implementing and evaluating curricula and instructional strategies / methods for children from birth to primary age, A wide range of student diversity is addressed, including ability, culture and language. Minimum of 30 hours of field experiences; students are responsible for their own transportation.

IECE 423. INTERDISCIPLINARY SERVICES FOR YOUNG CHILDREN WITH LOW INCIDENCE DISABILITIES. (3) *Prerequisites: SPED 331; or instructor permission.* Characteristics of children birth through five years with low incidence disabilities (e.g., autism, sensory impairments, physical impairments), as well as assessment and instructional strategies. The role of the transdisciplinary team, including family members, in providing services will be emphasized. Field experience is required; students are responsible for their own transportation.

IECE 489. PRACTICUM SEMINAR IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION. (1) *Prerequisites: Completion of all coursework within the IECE major; or instructor approval. Corequisite: IECE 491.* Discussion of a reflection on the practicum placement, as well as career planning. This course prepares IECE majors to apply knowledge learned in previous courses.

IECE 490. STUDENT TEACHING (INFANTS AND TODDLERS). (5) (PRESCHOOLERS). (5) *Prerequisites: Admission to student teaching. Corequisite: EDU 489.* Supervised assignment in approved setting where young children with and without disabilities and their families are served. Must complete a minimum of sixteen weeks in one or two placements depending on certification requirements. Students follow the academic calendar of the setting in which they are placed and are responsible for providing their own transportation to assigned site(s). ***Course Fee***

IECE 491. PRACTICUM IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION. (5) *Prerequisites: Completion of all coursework within the IECE major; or instructor approval. Corequisite: IECE 489.* Supervised work in off-campus settings with children birth to age 5, with and without disabilities, and their families. Students are responsible for arranging their own transportation.

INFO– INFORMATION RETRIEVAL
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

INFO 336. DATABASE AND INFORMATION RETRIEVAL. (3) *Prerequisite: CS 180 with a grade of "C" or better.* Theory, models and practical design issues of information retrieval and database management, including relational database design, development, implementation and security, information retrieval from unstructured data (text), and web search engine. May not be counted toward a computer science major or minor.

INS– INFORMATION SYSTEMS
SCHOOL OF PROFESSIONAL STUDIES

INS 181C. COMPUTER PROGRAMMING I. (3) *Prerequisite: DMA 096C or background for eligibility for MA 116C.* This course provides an introduction to program design and development. A structured approach to problem solving, program definition and design methodologies is stressed. The student will be assigned several programming problems.

INS 182C. COMPUTER OPERATING SYSTEM. (3) This course provides a thorough study of an operating system command set. This includes topics in file management, disk organization, memory management, virus safeguarding and system configuration.

INS 270C. ELECTRONIC SPREADSHEETS. (3) This course provides the student the foundation needed to utilize a spreadsheet for business applications. Design concepts, databases, charts and macros will be examined thoroughly along with the major built-in functions. Students will design several spreadsheets both in and out of class to solve specific business problems. ***Course Fee***

INS 272C. DATABASE MANAGEMENT. (3) This course addresses the design and maintenance of a database system. Topics of emphasis are writing of data queries, data redundancy and validation, sorting, reporting, and database programming. The student will design, create and manipulate several databases and also write database programs. ***Course Fee***

INS 275C. WEB PAGE DESIGN. (3) Covers web page design concepts and practice. Students will utilize software to design web pages and web sites that are attractive, user-friendly, and functional. Emphasis on both planning and creating a web site. ***Course Fee***

INS 281C. COMPUTER PROGRAMMING II. (3) *Prerequisite: INS 181C.* This course is a continuation of INS 181. An introduction to simple data structures and their applications is included. The student will be assigned several programming problems.

INS 285C. ADVANCED SOFTWARE APPLICATIONS. (3) This course provides the opportunity for the students to install, configure, evaluate and use a variety of software applications on single user systems and in a network environment. Software proficiency is emphasized as the need for end-user support is vital in both networked and stand-alone systems. This course will provide problem recognition and problem resolution experience at the system and application level.

INS 288C. NETWORK ADMINISTRATION. (3) *Prerequisite: INS 182.* This course provides the student the opportunity to analyze a system at the network operating system (NOS) level. A NOS will be available for installation providing client / server administration experience. Various network analysis problems will be examined. Study of the design of local area networks and wide area networks will be included as will maintenance issues.

INS 290C. INTERNSHIP-INFORMATION SYSTEMS. (3) *Prerequisite: Permission of program advisor.* Provides the advanced student with a practical working-learning opportunity. Periodic seminars and outside assignments related to the job are required. (Grading: Pass / Fail)

INT – Intercultural Studies
Department of Folk Studies and Anthropology

INT 450. FOREIGN FIELD STUDIES. (1-12) The course will focus on significant aspects of the culture under investigation, particularly the fine arts, the economy, the land and geography, the government, the history, the anthropological development, and the language and literature. The emphasis will be on contemporary culture and civilization, but with a look toward the past. (Contact the International Student Office.)

ITAL – Italian
Department of Modern Languages

ITAL 100. ITALIAN LANGUAGE AND CULTURE. (1-3) *Prerequisite: Permission of instructor.* An introduction to Italian and Italian-speaking culture in conjunction with study abroad for students with little or no previous language study. May be repeated for a total of three credits.

ITAL 101. ELEMENTARY ITALIAN I. (3) A beginning course designed to develop skills in understanding, speaking, reading and writing and to provide cultural insights.

ITAL 102. ELEMENTARY ITALIAN II. (3) *Prerequisite: ITAL 101 or one year of high school Italian.* Continuation of development of four skills and of cultural insights. ***Course Fee | Fulfills World Language with a grade of C or better.***

ITAL 105. INTRODUCTION TO ITALIAN CULTURE. (3) Survey of the contemporary culture of Italy, with emphasis on values, behavioral characteristics, social and political structures, and achievements of Italian-speaking people. Taught in English; only taught abroad.

JAPN – Japanese
Department of Modern Languages

JAPN 100. JAPANESE LANGUAGE AND CULTURE ON-SITE. (1-3) *Prerequisite: Permission of instructor.* An introduction to Japanese and Japanese-speaking culture in conjunction with study abroad for students with little or no previous language study. May be repeated for a total of three credits.

JAPN 101. ELEMENTARY JAPANESE I. (3) Introduction to pronunciation, grammar, and basic functional vocabulary of modern Japanese. Includes aspects of contemporary Japanese culture.

JAPN 102. ELEMENTARY JAPANESE II. (3) *Prerequisite: JAPN 101 or equivalent.* Continuation of Japanese 101 using Hiragana and Katakana writing systems, grammar, and basic additional vocabulary of modern Japanese. Includes aspects of contemporary Japanese culture. ***Course Fee | Fulfills World Language with a grade of C or better.***

JAPN 115. INTRODUCTION TO JAPANESE CULTURE. (3) Survey of the contemporary culture of Japan, with emphasis on values, behavioral characteristics, social and political structures, and achievements of the Japanese-speaking people. Taught in English; only taught abroad.

JAPN 201. INTERMEDIATE JAPANESE I. (3) *Prerequisites: JAPN 102 or equivalent.* Expansion of communication skills in increasingly complex and varied situations. Emphasis on conversational speaking, presentational writing and speaking, and understanding culturally specific texts and media. ***Fulfills World Language with a grade of C or better.***

JAPN 202. INTERMEDIATE JAPANESE II. (3) *Prerequisite: JAPN 201 or equivalent.* Continued expansion of interpersonal communication skills at the intermediate level. Emphasis on increasing comprehension, the building of vocabulary, and on presentational modes of speaking and writing. ***Fulfills World Language with a grade of C or better.***

JAPN 210. INTERMEDIATE JAPANESE CONVERSATION ABROAD. (1-3) *Prerequisite: JAPN 102 or equivalent.* Course designed to develop the vocabulary and communication skills of a student with one year of college Japanese or equivalent, with emphasis on contact with Japanese native speakers. Taught in Japanese. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

JAPN 211. INTERMEDIATE JAPANESE CULTURE ABROAD. (1-3) *Prerequisite; JAPN 102 or equivalent.* Course designed to develop an appreciation for different aspects of Japan and its people and culture, for a student with one year of college Japanese or equivalent. Taught in Japanese. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

JOUR – Journalism
School of Journalism & Broadcasting

JOUR 202. INTRODUCTION TO NEWS WRITING. (3) Reporting and writing skills primarily focused for print and online news. The course focuses on accuracy, responsibility, clarity, AP style, structure, interviewing, sourcing, and story generation. Research is emphasized. ***Course Fee***

JOUR 301. PRESS LAW AND ETHICS. (3) *Prerequisites: PS 110, SJB 101, JOUR 202, and junior standing, or permission of instructor.* An in-depth study of concepts basic to freedom of expression, with emphasis on libel, privacy, free-press and fair-trial guidelines, access to government information, and obscenity. Attention is given to attendant ethical considerations.

JOUR 302. INTERMEDIATE REPORTING. (3) *Prerequisite: JOUR 202.* Reporting and writing for print and online media. Emphasis on using journalistic style and grammar, interviewing and writing news stories on a range of topics including governmental affairs. ***Course Fee***

JOUR 323. MULTIPLATFORM NEWS PRESENTATION. (3) *Prerequisite: JOUR 202.* Basic instruction in copy editing and headline writing for print and online publication. Course will include topics in visual editing, news selection and ethical considerations. ***Course Fee***

JOUR 325. FEATURE WRITING. (3) *Prerequisites: JOUR 302 and 323, or permission of the instructor.* A professional reporting course that teaches feature writing and marketing of feature articles for print and online.
Course Fee

JOUR 422. CURRENT ISSUES IN MASS COMMUNICATION. (3) *Prerequisite: 18 hours of journalism for journalism majors.* A senior-level seminar designed as a capsule course for journalism students focusing on a variety of topics including, but not limited to, access to the media, protection of confidential sources, objectivity, fairness, the media influence on the decision-making process, and the new technology. Capstone course for the mass communication major.

JOUR 426. ADVANCED REPORTING. (3) *Prerequisite: JOUR 323 or JOUR 325.* Designed to produce for publication in-depth news reporting, including reporting on government affairs, using interviewing, observation and public records research skills coupled with computer assisted reporting. Capstone course for news / editorial curriculum. ***Course Fee***

JOUR 467. NEWS / EDITORIAL INTERNSHIP PRACTICUM. (1) *Prerequisite: Instructor permission.* An intense study of a specific news writing, editing, visual or production skill in a professional media outlet. The skill will be identified and studied through discussion and application. May be repeated for a maximum of 3 credit hours.

JOUR 481. PROBLEMS IN MASS COMMUNICATION. (3) In-depth study of challenges in journalism and mass communication. Involves research, planning, execution, and implementation of a project, or projects, guided by the instructor.

JOUR 491. INTERNSHIP OR PRACTICUM. (3) *Prerequisites: 18 hours in the major and permission of sequence head.* Professional-quality experience outside or inside the University for a fixed period of time and conforming to minimum standards established by the School. Follow-up will consist of student reports and evaluation.

KORE – KOREAN
DEPARTMENT OF MODERN LANGUAGES

KORE 101. ELEMENTARY KOREAN I. (3) Prepares students to communicate verbally and in writing in simple routine tasks; to understand written or spoken communication on everyday topics and to develop cultural awareness.

KORE 102. ELEMENTARY KOREAN II. (3) *Prerequisite: KORE 101 or permission of instructor.* Continuation of the development of communication skills on everyday topics and of cultural insights. ***Course Fee | Fulfills World Language with a grade of C or better.***

LEAD / LEA – LEADERSHIP STUDIES
SCHOOL OF PROFESSIONAL STUDIES (LEAD)

LEAD 200 / LEA 200C. INTRODUCTION TO LEADERSHIP STUDIES. (3) An introduction to the basics of effective leadership including an investigation of leadership theories and assessment of leadership styles. ***Colonnade E-SB | SB***

LEAD 300. LEADERSHIP THEORY AND APPLICATION. (3) *Prerequisite: Junior standing or permission of the instructor.* A study of leadership concepts, theories, and models; an overview of personal leadership assessments and leadership development plans; enhanced leadership knowledge through experiential learning. Students who have taken LEAD 200 may not earn credit for LEAD 300.

LEAD 325. LEADING CHANGE. (3) *Prerequisite: LEAD 200 or LEAD 300 or instructor's permission.* Study of processes and skills impacting a leader's ability to implement change, emphasizing the analysis of various existing models to produce sound solutions.

LEAD 330. LEADERSHIP ETHICS AND DECISION-MAKING. (3) *Prerequisite: LEAD 200 or LEAD 300 or instructor's permission.* Study of contemporary ethical and decision-making issues facing leaders; emphasis on examining and analyzing ethical issues for sound leadership solutions.

LEAD 395. CONTEMPORARY LEADERSHIP ISSUES. (3) *Prerequisite: LEAD 200 or LEAD 300 or instructor's permission.* Analysis of contemporary issues from a leadership perspective.

LEAD 400. LEADERSHIP CAPSTONE. (1-6) *Prerequisite / Corequisites: LEAD 200 or LEAD 300, and a minimum of 9 hours completed in the major.* A course to assess student's summative knowledge of leadership and provide an opportunity for students to demonstrate how to integrate that knowledge. Not repeatable.

LEAD 440. LEADING TEAMS. (3) *Prerequisite: LEAD 200 or LEAD 300 or instructor's permission.* Study of issues impacting team leaders and members; emphasis on examining and analyzing solutions for effective team leadership.

LEAD 450. LEADERSHIP IN GLOBAL CONTEXTS. (3) *Prerequisite: LEAD 200 or LEAD 300 or permission of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Study and analysis of cultural impacts on successful leadership in various geographical areas. Focus on cultural theories and models that influence leadership across contexts. ***Colonnade K-LG***

LEAD 465. LEADERSHIP COACHING. (3) *Prerequisite: LEAD 200 or LEAD 300 or permission of instructor.* Examination of fundamental leadership coaching skills that improve the adjustment and performance of individuals in an organizational setting. Topics to be covered include: the scope of coaching practice, optimal practitioner characteristics, resiliency training, peer leadership, coaching youth, related organizational dynamics, and coaching interventions and resources. This course also includes an emphasis on experimental learning through coaching practice activities.

LEAD 475. LEADERSHIP STUDIES SPECIAL TOPICS. (3) *Prerequisite: LEAD 200 or LEAD 300 or instructor's permission.* Applications of leadership theories and methodologies in selected fields, including the sciences, engineering, urban planning, the arts, public health, education and business, and for study abroad programs.

LEAD 498. INDEPENDENT STUDY IN ORGANIZATIONAL LEADERSHIP. (1-6) Prerequisite: *Prerequisites: LEAD 200 or LEAD 300 or instructor's permission.* Individual research, literature review or professional development project in a specific area of leadership, in close cooperation with supervising faculty. Repeatable three times for up to 6 credit hours.

LME – LIBRARY MEDIA EDUCATION
SCHOOL OF TEACHER EDUCATION

LME 318. CHILDREN'S LITERATURE. (3) *Prerequisites: First three English courses or instructor approval.* An introduction to picture books, traditional literature, poetry, fiction, biography, informational books, and the development of literature programs in the elementary and middle school.

LME 407. LITERATURE FOR YOUNG ADULTS. (3) Selection and evaluation of materials, reading guidance, and programming for young people, adolescence through young adult.

LME 409. SELECTED TOPICS. (1-3) *Prerequisite: Permission of supervising faculty member.* Problematic study of a selected topic under the supervision of a faculty member. A formal research paper or annotated bibliography is required.

LME 410. STORYTELLING. (3) Storytelling literature, story selection, and sources. Practice in oral communication.

LME 411. CREATIVE MEDIA EXPERIENCES FOR CHILDREN. (3) Methods and procedures for developing creativity in children. The design and evaluation of materials and activities in a variety of media formats for school and library settings. Includes program development.

LME 445. INTRODUCTION TO EDUCATIONAL TECHNOLOGY. (3) Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various communication media formats.

LME 448. TECHNOLOGY APPLICATIONS IN EDUCATION. (3) Uses of technology in education for instruction and instructional management. Emphasis on evaluation and utilization of appropriate software and hardware.

LME 475. WORKSHOP. (1-3) Workshop classes of variable content focused on library media practice and integration of educational technology.

LTCY / LTC – LITERACY
SCHOOL OF TEACHER EDUCATION

LTCY 199 / LEA 199C. READING FOR EVIDENCE AND ARGUMENT. (3) Prepares students to successfully meet the rigorous reading and other literacy requirements of college. Emphasis on refining skills necessary to extract factual evidence from text and make sound arguments through various modes of literacy.

LTCY 310. EARLY READING, LANGUAGE AND LITERACY. (3) *Prerequisites: SPED 331; or instructor permission.* Theory and methods for creating learning environments for the development of language, emergent literacy, and reading and writing skills from infancy through kindergarten.

LTCY 320. FOUNDATIONS OF TEACHING LITERACY IN THE ELEMENTARY GRADES. (3) *Prerequisites: EDU 250, PSY 310.* An introduction to literacy instruction for elementary grade children; includes an examination of reading needs, instructional methods, materials, and resources related to the development of standards-based literacy skills and strategies; provides instruction on foundational theories and research. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

LTCY 420. LITERACY METHODS IN THE ELEMENTARY GRADES. (3) *Prerequisites: LTCY 320 and either ELED 345 or SPED 340 with grades of "C" or higher and admission to teacher education.* A second course in literacy designed to offer standards-based, practical applications of instruction that build on the content of LTCY 320. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

LTCY 421. CONTENT AREA READING IN THE MIDDLE AND SECONDARY GRADES. (3) *Prerequisites: EDU 250, MGE 275, AGED 250, or AMS 330 with a grade of "C" or higher; and admission to Teacher Education.* A course in reading designed to offer a detailed view of the principles, materials and methods of instruction for middle and secondary grade students. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

MATH / MA – MATHEMATICS
DEPARTMENT OF MATHEMATICS (MATH)

Courses numbered below 136 are not applicable toward a major or minor in mathematics. A student who has earned credit for the listed course with a grade of "C" or better may not subsequently receive credit for the courses following in parentheses: MATH 116/MATH 123 (MATH 115); MATH 117 (MATH 115 and 116/123); MATH 118 (MATH 115, 116 and 117); MATH 119 (MATH 115, 116/123, and 118); MATH 136 (MATH 115, 116/123, 117, 118, and 119); MATH 137 (MATH 115, 116/123, 117, 118, 119, and 136); MATH 310 (MATH 109); MATH 382 (MATH 109 and 183); STAT 301 (MATH 109 and 183). Students may only take the courses MATH 116 and MATH 123 for a total of three graded attempts.

MATH 109 / MA 109C. GENERAL MATHEMATICS. (3) Terminal course for non-science majors suggested for the student who has satisfactorily completed minimum high school mathematics requirements and needs no further work in algebra. Topics include sets, introduction to probability and statistics, geometry, and consumer mathematics. ***Colonnade F-QR | QR***

MATH 112. PROBLEM SOLVING AND MATHEMATICAL SKILLS FOR TEACHERS. (3) Development of mathematical skills and problem-solving techniques necessary for preservice teachers. Topics include: number and algebra, geometry, probability and statistics. ***Colonnade F-QR | QR***

MATH 115 / MA 115C. APPLIED COLLEGE ALGEBRA. (3) *Prerequisites / Corequisites: Satisfactory scores on WKU Math Placement Exam and Math ACT or equivalent or DMA 096C with a grade of "C" or better.* Intended primarily for students who are not majoring in a scientific or technical field; not intended for students whose curriculum requires trigonometry or calculus. Emphasis is on real-world problems that involve reading, writing, calculating, synthesizing, and clearly reporting results. Topics include linear, quadratic, exponential and logarithmic functions, and systems of equations. (Graphing calculator required). ***Colonnade F-QR | QR***

MATH 116 / MA 116C. COLLEGE ALGEBRA. (3) *Prerequisites: Math ACT score of 22 or better or Math SAT score of 510 or better or a score of 14 or better on the WKU Math Placement Exam or a score of 14 or better on the KYOTE or a score of 50 or better on the COMPASS (College Algebra domain) or DMA 096C with a grade of "C" or better.* Graphing and problem solving are integrated throughout the study of polynomial, absolute value, rational, radical, exponential, and logarithmic functions. (Graphing calculator required.)**.** ***Colonnade F-QR | QR***

MATH 117 / MA 117C. TRIGONOMETRY. (3) *Prerequisites: Four years of high school mathematics including Algebra I and II and geometry, and satisfactory score on Math Placement Exam; or MATH 116 with a grade of "C" or better; or MATH 123 with a grade of "C" or better.* Unit circle; trigonometric functions and graphs; trigonometric identities and equations; right triangle trigonometry; laws of sines and cosines; DeMoivre's Theorem; vectors and applications of trigonometry. (Graphing calculator required.) ***Colonnade F-QR | QR***

MATH 118. COLLEGE ALGEBRA AND TRIGONOMETRY. (5) *Prerequisites: High school Algebra I and II and geometry, and a satisfactory score on the Math Placement Exam; or DMA 096C or MATH 096 with a grade of "A." (Students who have completed DMA 096C or MATH 096 are urged to substitute MATH 116-117 for MATH 118.)* Real number system, algebraic manipulations, and solutions of equations and inequalities, absolute value, exponential and logarithmic functions, trigonometry, systems of equations, complex numbers. (Graphing calculator required.) (course fee MATH 118-002)

MATH 119. FUNDAMENTALS OF CALCULUS. (4) *Prerequisites: Four years of high school mathematics, including Algebra I and II and geometry, and satisfactory score on Math Placement Exam; or MATH 116 or MATH 118, with a grade of "C" or better.* An introduction to calculus designed for non-science and non-technical majors. Applications are directed toward the management sciences and related areas. Not accepted for credit toward a mathematics major or minor. (Graphing calculator required.)

MATH 121. COMPUTATIONAL PROBLEM SOLVING. (4) *Prerequisite: Enrollment in the Gatton Academy of Mathematics and Science in Kentucky.* Students will tackle problems ranging from elementary to advanced, using mathematical methods, algorithmic techniques, and computational methods. This course is taught jointly by mathematics and computer science faculty; it is equivalent to CS 121.

MATH 123. MATHEMATICAL APPLICATIONS FOR BUSINESS. (3) *Prerequisites / Corequisites: ACT score of 22 or better or Math SAT score of 510 or better or WKU Math Placement Exam score of 14 or better or KYOTE score of 14 or better or DMA 096C with a grade of C or better.* Business applications of linear, quadratic, exponential and logarithmic functions, plus a brief introduction to probability, the mathematics of finance, and derivatives as they apply to problem-solving strategies in business-related fields. ***Colonnade F-QR | QR***

MATH 127. APPLIED GEOMETRY. (3) *Prerequisites: MATH 116 / 116E with a grade of "C" or better, or Math ACT and MPE scores that qualify student for MATH 117.* Euclidean geometry with historical applications, including tilings, fractals, circular and spiral designs, celestial themes, special topics in linear algebra, and the origins of perspectives.

MATH 136. CALCULUS I. (4) *Prerequisites: Four years of high school mathematics, including Algebra II, geometry, and trigonometry, and satisfactory score on Math Placement Exam and Math Placement Trig Exam; or MATH 117 or MATH 118, with grade of "C" or better.* A course in one-variable calculus including topics from analytic geometry. Limits, derivatives, integration, and applications of polynomial, rational, trigonometric, and transcendental functions. Includes lecture and recitation. ***Colonnade F-QR | QR***

MATH 137. CALCULUS II. (4) *Prerequisites: MATH 136 with a grade of "C" or better*. A second course in one-variable calculus including topics from analytic geometry. Methods of integration, sequences and series, polar and parametric functions. Includes lecture and recitation.

MATH 142. CALCULUS WITH APPLICATIONS FOR LIFE SCIENCES. (5) *Prerequisites: Four years of high school mathematics, including Algebra I and II, geometry, and a course that includes trigonometry, and satisfactory Math ACT and math placement scores; or MATH 117 or MATH 118, with a grade of "C" or better.* Exponential and logarithmic functions, derivatives, integration, first order differential equations, and systems of linear equations, with major emphasis on applications in life sciences. ***Colonnade F-QR | QR***

MATH 183. INTRODUCTORY STATISTICS. (3) *Prerequisite: Satisfactory score on Math ACT and MPE, or COMPASS or KYOTE; or DMA 096C with a grade of "C" or better*. Introduction to elementary probability theory. The analysis of data by means of frequency distributions and the statistics which describe them. The binomial and normal probability distributions. Statistical inference. Emphasis is on applied real world problems. Not accepted for credit toward a mathematics major or minor. ***Colonnade F-QR | QR***

MATH 205. NUMBER SYSTEMS AND NUMBER THEORY FOR TEACHERS. (3) *Prerequisites: MATH 112 or 116 or 117 or 136 or 183 with a grade of "C" or better; for students in Early Grades (K-5), Middle Grades (5-9) or SPED Teacher Certification programs only.* Development of conceptual understanding of elementary place value, operations on whole numbers and integers, number theory, basic algebra, and functions.

MATH 206. FUNDAMENTALS OF GEOMETRY FOR TEACHERS. (3) *Prerequisites: MATH 205 with a grade of "C" or better; for students in the Early Grades (K-5), Middle Grades (5-9) or SPED Teacher Certification programs only.* Conceptual development of fundamental concepts of geometry and measurement.

MATH 237. MULTIVARIABLE CALCULUS. (4) *Prerequisites: MATH 137 with a grade of "C" or better.* Topics in real-valued functions of several variables including directional derivatives, implicit functions, gradient, Taylor's Theorem, maxima, minima, and Lagrange multipliers. Differential calculus of vector-valued functions including chain rule and Inverse Function Theorem. Multiple integrals, line integrals, surface integrals, Stokes' and Green's Theorems.

MATH 240. GEOMETRY IN ART AND ARCHITECTURE. (3) *Prerequisites: Any Colonnade Foundations MATH course with a B or better; 21 hours of Foundations and Explorations Courses, or junior status*. Euclidean geometry with historical applications in art and architecture, such as tiling, circular and spiral designs, designs of the great cathedrals in Europe, Buddhist stupas in Asia, Islamic art, the development of visual perspective, and musical ratios. Equivalent to HUM 240. ***Colonnade K-SY***

MATH 275. INTRODUCTORY TOPICS IN MATHEMATICS. (1-3) *Prerequisites: MATH 136 and permission of instructor.* Varied topics selected to give students an early introduction to interesting mathematical problems or applications not found in the foundation sequence.

MATH 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year or Ogden College faculty member recommendation.* To familiarize Ogden Research Scholars and other interested students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, classification of instruments, data taking, data reduction, professional ethics and related topics. The common points of research methodology in the different scientific areas will be emphasized, with examples drawn from various disciplines. Computers will be utilized. (Course does not count toward any major or minor.) Equivalent to BIOL 295, CHEM 295, CS 295, ENGR 295, GEOL 295, and PHYS 295.

MATH 302. INTRODUCTION TO ADVANCED MATHEMATICS FOR MIDDLE GRADES TEACHERS. (3) *Prerequisite: MATH 136.* Development of skills in reasoning, justification, abstraction, generalization, and making connections through the study of selected topics from logic, sets, relations and functions, combinatorics, number theory, graph theory, and matrix algebra, as appropriate for middle grades mathematics teachers

MATH 304. FUNCTIONS, APPLICATIONS AND EXPLORATIONS. (3) *Prerequisite: MATH 137 or MATH 302 with a grade of "C" or better.* In-depth study of mathematical topics used in teaching pre-calculus and transition-to-calculus courses at the middle and secondary school level. Modeling with linear, exponential, and trigonometric functions; curve fitting; discrete and continuous models.

MATH 305. INTRODUCTION TO MATHEMATICAL MODELING. (3) *Prerequisite: MATH 137 with a grade of "C" or better.* Theory and computer implementation of mathematical models. Deterministic, stochastic, discrete, continuous, and matrix models. Introduction to advanced topics such as linear algebra, differential and difference equations, probability, stochastic processes, and dynamical systems.

MATH 306. APPLIED AND COMPUTATIONAL LINEAR ALGEBRA. (3) *Prerequisites: Math placement eligibility above MATH 116 or MATH 116 with a grade of "C" or better, and MATH 183 or another college-level 3-hour statistics course with a grade of "C" or better; or MATH 136 or MATH 142 with grade of "C" or better.* Basic concepts and computational techniques of matrix and linear algebra. Practical methods using computer software for small-to-large data sets. Applications in economics, finance, informatics, statistics, and social, engineering, physical and biological sciences. Computer assignments are required. Not accepted for credit toward a mathematics major or minor.

MATH 307. INTRODUCTION TO LINEAR ALGEBRA. (3) *Prerequisites: MATH 137 with a grade of "C" or better or MATH 136 with a grade of "A" or MATH 142 with a grad of "A" or both MATH 136 and CS 221 with grades of "C" or better*. Systems of linear equations, matrix algebra, vector spaces, inner product spaces, linear transformations, eigenvectors, quadratic forms.

MATH 308. RATIONAL NUMBERS AND DATA ANALYSIS FOR TEACHERS. (3) *Prerequisite: MATH 205 with a grade of "C" or better; for students in the Elementary Education (K-5), Middle Grades Mathematics (5-9) or SPED Teacher Certification programs only.* Conceptual development of rational number system, including operations with and relationships among fractions, decimals, and percents; elementary probability and statistics.

MATH 310. INTRODUCTION TO DISCRETE MATHEMATICS. (3) *Prerequisite: MATH 137 with a grade of "C" or better .* Introduction to discrete topics. Development of skills in abstraction and generalization. Set theory, functions and relations, mathematical induction, elementary propositional logic, quantification, truth tables, validity; counting techniques, pigeonhole principle, permutations and combinations; recurrence relations and generating functions; elementary graph theory, isomorphisms, trees.

MATH 315. THEORY OF NUMBERS. (3) *Prerequisite: MATH 307 with a grade of "C" or better.* A study of the arithmetic of the integers, divisibility, prime numbers, factorization, diophantine equations, congruences, quadratic residues.

MATH 317. INTRODUCTION TO ALGEBRAIC SYSTEMS. (3) *Prerequisites: MATH 307 and MATH 310 with grades of C or better.* Introduction to groups, rings, polynomial rings, integral domains, and fields.

MATH 323. GEOMETRY I. (3) *Prerequisite: MATH 307 with a grade of "C" or better.* Beginning with a re-examination of elementary Euclidean geometry, the course includes a study of absolute plane geometry and the parallel postulate, which leads to an axiomatic treatment of hyperbolic geometry and related topics.

MATH 331. DIFFERENTIAL EQUATIONS. (3) *Prerequisite: MATH 137 with a grade of "C" or better.* Methods of solution of differential equations, existence and nature of solutions, Laplace transform method, infinite series and numerical solutions, and applications.

MATH 337. ELEMENTS OF REAL ANALYSIS. (3) *Prerequisites: MATH 237, 307, and 310 with a grade of C or higher.* Basic concepts and techniques of real analysis, including proofs by induction and contradiction, the number system, functions of real variables, sets, series and sequences, cardinality, continuity, convergence, elementary topology.

MATH 350. ADVANCED ENGINEERING MATHEMATICS. (3) *Prerequisite: MATH 331 or equivalent.* Special topics in Laplace transforms, linear algebra and complex analysis. Designed for engineering students.

MATH 370. APPLIED TECHNIQUES IN MATHEMATICS. (3) *Prerequisites: MATH 237, MATH 331 with grades of C or higher.* Matrices, systems of ordinary differential equations, complex variables, and at least one of the topics from Fourier analysis, numerical analysis, or optimization (linear programming, Lagrange multipliers).

MATH 371. ADVANCED COMPUTATIONAL PROBLEM SOLVING. (3) *Prerequisite: CS 180 with a grade of C or better. Prerequisite or Corequisite: MATH 136. Special requirement: Enrollment in the Gatton Academy of Mathematics and Science or Honors Program eligibility at WKU.* Problem-solving tools and techniques, with an emphasis on mathematical reasoning, algorithmic techniques, and computational methods. Techniques and tools are applied to (research) areas of interest to enrolled students, in the context of a project involving program design and implementation. The course is taught jointly by mathematics and computer science faculty. Equivalent to CS 371.

MATH 382. PROBABILITY AND STATISTICS I. (3) *Prerequisite: MATH 310 with a grade of C or better. Prerequisite or Corequisite: MATH 237.* Axioms and laws of probability; discrete and continuous probability distributions; multivariate distributions; random variables; expectation; moment generating functions; Central Limit Theorem.

MATH 398. SEMINAR. (1) *Prerequisite: MATH 237 with a grade of C or better.* Students will work on a topic of interest under the direction of a mathematics faculty member, who will set the requirements for the course. Mathematics majors could have the opportunity to continue this work in MATH 498. (May be repeated for up to a total of 3 hours credit.)

MATH 403. GEOMETRY FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS. (3) *Prerequisites: MATH 206 with a grade of C or better or MATH 225 with a grade of C or better. (For students in the early grades (K-4) teacher certification program or students pursuing middle grades (5-8) certification with a mathematics emphasis.)* Both formal and informal methods are used to explain the basic concepts of Euclidean geometry. Emphasis is given to the investigative approach, organizational skills, and problem solving.

MATH 405. NUMERICAL ANALYSIS I. (3) *Prerequisites: MATH 137, and MATH 237 or MATH 307 or MATH 310, and CS 180 or CS 146, all with grades of "C" or better.* Computer arithmetic, roots of equations, polynomial approximation and interpolation, numerical differentiation and integration. Computer solutions of problems will be required. Equivalent to CS 405.

MATH 406. NUMERICAL ANALYSIS II. (3) *Prerequisites: MATH 237, 307, 331, and either MATH 405 or CS 405, all with grades of C or better.* The solution of linear systems by direct and iterative methods, matrix inversion, the calculation of eigenvalues and eigenvectors of matrices. Initial and boundary value problems in ordinary differential equations. Computer solution of problems will be required.

MATH 409. HISTORY OF MATHEMATICS. (3) *Prerequisite: Six hours of approved mathematics courses at the 300 and / or 400 level or permission of instructor.* History of mathematics from ancient times through the development of calculus, with emphasis on famous problems. Provides knowledge and appreciation useful in the classroom. This course cannot be accepted as part of the 35-hour requirement for the non-certifiable mathematics major. Term papers will be required.

MATH 411. PROBLEM SOLVING FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS. (3) *Prerequisite: MATH 308 with a grade of "C" or better or permission of instructor.* Integrates concepts developed in algebra, geometry, logic, statistics, probability, and elementary number theory. Students are encouraged to use problem-solving strategies, models, and technologies, and to create problems of their own.

MATH 413. ALGEBRA AND TECHNOLOGY FOR MIDDLE GRADES TEACHERS. (3) *Prerequisite: MATH 117 or 136, with a grade of "C" or better.* The use of graphing calculators and computer software to explore algebraic ideas including patterns, functions, equations, inequalities, linear programming, curve fitting, and practical applications of algebra and technology.

MATH 415. ALGEBRA AND NUMBER THEORY. (3) *Prerequisite: MATH 315 or 317 with a grade of "C" or better.* An integrated survey of modern algebra and number theory. Topics include number systems, divisibility, congruences, groups and their application to number theory.

MATH 417. ALGEBRAIC SYSTEMS. (3) *Prerequisite: MATH 317 with a grade of "C" or better.* The theory of finite groups and related algebraic systems. Lagrange's Theorem, Sylow Theorems, and the structure of finite groups are studied. Applications of group theory to the study of algebraic problems and symmetry.

MATH 421. PROBLEM SOLVING FOR SECONDARY TEACHERS. (3) *Prerequisites: MATH 137 and MATH 307 or MATH 310 with grades of "C" or better or permission of the instructor*. Utilizes various techniques and technology to solve mathematical problems. Integrates concepts from algebra, geometry, trigonometry, probability, statistics, number theory, discrete mathematics, linear algebra, and calculus.

MATH 423. GEOMETRY II. (3) *Prerequisite: MATH 137 and MATH 323 with grades of "C" or better or permission of the instructor.* An axiomatic development of hyperbolic geometry based on the hyperbolic parallel postulate and the absolute geometry developed in MATH 323, including an emphasis on contrasts with Euclidean geometry.

MATH 431. INTERMEDIATE ANALYSIS I. (3) *Prerequisite: MATH 337 with a grade of "C" or better.* Topics in analysis chosen from inverse and implicit function theorems, differentiation, integration, infinite series, series of functions, and elementary functional analysis.

MATH 435. PARTIAL DIFFERENTIAL EQUATIONS. (3) *Prerequisites: MATH 237, 307, and 331 all with grades of C or better.* Equations of first and second order; elliptic, hyperbolic and parabolic equations; Sturm-Liouville theory; applications to equations of mathematical physics using separation of variables and Fourier series.

MATH 439. TOPOLOGY I. (3) *Prerequisite: MATH 317 with a grade of "C" or better, or permission of instructor.* Introduction to topology including topics selected from: topological spaces, mappings, homeomorphisms, metric spaces, surfaces, knots, manifolds, separation properties, compactness and connectedness.

MATH 450. COMPLEX VARIABLES. (3) *Prerequisite: MATH 237 with a grade of "C" or better.* Complex number plane, analytic functions of a complex variable, integration, power series, calculus of residues, conformal representation, applications of analytic function theory.

MATH 470. INTRODUCTION TO OPERATIONS RESEARCH. (3) *Prerequisites: MATH 237 and 307 with grades of C or better.* Principles and techniques of operations research including linear programming, integer programming, quality theory, sensitivity analysis, and dynamic programming.

MATH 473. INTRODUCTION TO GRAPH THEORY. (3) *Prerequisites: MATH 307 and MATH 310 with grades of C or better, or permission of the instructor.* Fundamental concepts, key ideas and tools in graph theory, with an emphasis on proof methods, algorithms, and applications. Techniques and tools are applied to practical optimization problems and other areas of mathematics and computer science. Equivalent to CS 473.

MATH 475. SELECTED TOPICS IN MATHEMATICS. (1-3) *Prerequisite: Permission of instructor.* A consideration of special topics to acquaint the advanced undergraduate student with significant problems and developments of current interest in mathematics. Topics may vary each semester offered.

MATH 482. PROBABILITY AND STATISTICS II. (3) *Prerequisites: MATH 237 and MATH 382 with grades of C or better.* Multivariate probability distributions; sampling distributions, statistical inference; point and interval estimation, properties of estimators; hypothesis testing; regression and correlation; analysis of variance; non-parametric methods.

MATH 490. SEMINAR IN MIDDLE GRADES MATHEMATICS. (1-3). *Prerequisite: Completion of at least 25 hours of mathematics courses, with grades of C or better, required for the Middle Grades Mathematics Degree. Prerequisite/ Corequisite: MATH 411 or MATH 421.* Designed to integrate the ideas and techniques students have encountered in the middle grades mathematics major. Students undertake independent investigations in mathematics. Papers and oral presentations are required.

MATH 497. SENIOR SEMINAR IN MATHEMATICAL ECONOMICS. (1) *Prerequisite or Corequisite: Senior standing and admitted to the major in mathematical economics.* This course is designed to integrate the ideas and techniques students have encountered in their work in mathematics and economics. Students will study research articles and / or undertake independent investigations in mathematical economics. Equivalent to ECON 497.

MATH 498. SENIOR SEMINAR. (1-3) *Prerequisites: MATH 237 and MATH 317 with grades of C or better, and senior standing or permission of instructor.* Students will study articles in current mathematical journals or undertake independent investigations in mathematics. Written and oral presentations are required.

ME – MECHANICAL ENGINEERING
SCHOOL OF ENGINEERING AND APPLIED SCIENCES

ME 176. MECHANICAL ENGINEERING FRESHMAN DESIGN. (1) *Corequisite: MATH 117 or higher.* An introduction to mechanical engineering. The design process and basic professional tools are introduced through multiple projects. Permission of instructor only. ***Course Fee***

ME 180. FRESHMAN DESIGN II. (3) *Prerequisites: ME 176 with a grade of "C" or better and MATH 136 with a grade of "C" or better.* A continuation of the engineering design process, with an emphasis on electromechanical design and the use of professional engineering tools. Virtual and rapid prototypes will be developed through a series of integrated projects. Basic concepts in engineering experimentation will be introduced. Requires a grade of "C" or better in MATH 136. ***Course Fee***

ME 200. SOPHOMORE DESIGN. (3) *Prerequisites: ME 180 with a grade of C or better, Pre-major requirements satisfied in iCAP.* Enhances design abilities through individual and team design projects, develops structured problem-solving techniques and written, oral and graphical communication skills. ***Course Fee***

ME 220. ENGINEERING THERMODYNAMICS I. (3) *Prerequisites: EM 221 or EM 222, and MATH 331. Corequisite: MATH 331.* Fundamental principles of thermodynamics, first law, physical properties, ideal and real gases, second law, reversibility and irreversibility, and consequences of thermodynamic cycles.

ME 240. MATERIALS AND METHODS OF MANUFACTURING. (3) *Prerequisites: CHEM 116 with a grade of C or better or CHEM 120 with a grade of C or better, MATH 136 with a grade of C or better. Corequisite: ME 241.* Introduction to the science of engineering materials including structures from the atomic to macroscopic scales, properties, strengthening mechanisms, phase diagrams and correlation between processing and properties. Introduction to manufacturing process selection and properties of materials.

ME 241. MATERIALS AND METHODS OF MANUFACTURING LAB. (1) *Prerequisites: CHEM 106 or CHEM 121. Corequisite: ME 240.* Laboratory supporting ME 240. Experiments to develop understanding of materials science, engineering material properties and relationships between processing and properties. Exposure to manufacturing methods through experimentation and observation, including field trips to regional sites. ***Course Free***

ME 300. JUNIOR DESIGN. (2) *Prerequisites: ME 200 with a grade of "C" or better ME 220, ME 344.* Introduces the concept of design methodologies: Design for Assembly, Design for Manufacturing, etc. and applies these techniques to design projects. Written, oral, and graphical communication skills will continue to be developed, including skills in working with vendors for production of components to engineering specifications. ***Course Fee***

ME 310. ENGINEERING INSTRUMENTATION AND EXPERIMENTATION. (3) *Prerequisites: EM 303, EE 210, ME 347 (may be taken concurrently).* The use of sensors and instruments to measure the behavior of mechanical systems is explored in lectures and laboratory exercises. Application of sensors, calibration of systems, and methods of data collection and analysis are covered with an emphasis on uncertainty analysis. ***Course Fee***

ME 321. ENGINEERING THERMODYNAMICS II. (3) *Prerequisites: ME 220, MATH 331.* Gas mixtures, air-water vapor mixtures. Air conditioning system design. Principles and design of energy conversion devices, power and refrigeration cycles. Principles of combustion, chemical equilibrium, one-dimensional gas dynamics. Nozzle design. Continuation of ME 220.

ME 325. ELEMENTS OF HEAT TRANSFER. (3) *Prerequisite: ME 330. Corequisite: ME 333.* Discussion of basic physical laws of heat transfer including steady-state and transient heat flow; one-, two-, and three- dimensional heat conduction in solids, free or forced convection in fluids, radiation and phase change. Analysis of heat exchangers.

ME 330. FLUID MECHANICS. (3) *Prerequisites: MATH 331, ME 220 with a grade of C or better, MATH 237. Corequisite: ME 332.* An introduction to the physical laws governing the mechanical behavior of liquids and gasses, with applications of conservation of mass, energy and momentum equations. Topics include fluid statics, internal and external fluid flow, flow measurement, scale modeling and similitude, hydraulic machinery analysis and pipe networks.

ME 332. FLUID MECHANICS LABORATORY. (1) *Prerequisite: MATH 331, ME 220 with a grade of C or better, MATH 237, ME 310. Corequisite: ME 330.* An applied laboratory in the modeling, prediction, and measurement of fluid mechanics components and systems, with emphasis on the preparation of engineering reports, uncertainty analysis, and the experimental design plan process. System level experiments include fluid property measurements, pipe flow and turbomachinery characteristics. ***Course Fee***

ME 333. HEAT TRANSFER LABORATORY. (1) *Prerequisite: ME 332. Corequisite: ME 325.* An applied laboratory in the modeling, prediction, and measurement of fluid mechanics components and systems, with emphasis on the preparation of engineering reports, uncertainty analysis, and the experimental design plan process. System level experiments include heat transfer measurements and heat transfer component characteristics. ***Course Fee***

ME 344. MECHANICAL DESIGN. (3) *Prerequisites: EM 303 with a grade of C or better, ME 240 with a grade of C or better.* Fundamentals of design with methods of approximation. Introduction to optimum design considerations. Synthesis and problems on the design of various mechanical elements.

ME 347. MECHANICAL SYSTEMS LABORATORY. (1) *Prerequisite: ME 241. Prerequisites or corequisites*: EM 303, MATH 331. Implementation of fundamental principles and physical laws governing the response of mechanical system components to external forces and constraints. Students will learn to plan, conduct, and report on a variety of experiments and projects to measure the performance characteristics of mechanical systems. ***Course Fee***

ME 366. MECHANICS FOR ELECTRICAL ENGINEERS. (3) *Prerequisite: PHYS 255. Prerequisite or corequisite: MATH 237.* A combined course in statics and dynamics. Topics from statics include vector algebra, distributed and internal forces, trusses, frames, and beams. Topics from dynamics include kinematics / kinetics in various reference systems, work / energy, and impulse / momentum. (This course is not for civil or mechanical engineering majors.)

ME 400. MECHANICAL ENGINEERING DESIGN. (2) *Prerequisite: ME 300.* A formal introduction to product development methodologies and project management techniques, building upon experiences in previous design courses. Students will perform team design projects as well as complete the design specifications for their senior capstone project.

ME 412. MECHANICAL ENGINEERING SENIOR PROJECT. (3) *Prerequisites: ME 325 (may be taken concurrently) and ME 400.* Students work in design teams to develop a robust solution to a complex system design problem. Focus will be on design-build-test of the proposed solution. Students expected to demonstrate all aspects of professional engineering practice.

ME 416. UK-DYNAMIC SYSTEMS ELECTIVE. (3) *Prerequisites: EM 313 and MATH 331.* Advanced special topics delivered in the program by UK faculty to acquaint the undergraduate student with significant problems and developments of current interest in the dynamic systems area of mechanical engineering. ***Course Fee***

ME 494. WKU ME SELECTED TOPICS. (2) *Prerequisite: Permission of instructor.* An advanced special topics course delivered by WKU faculty to acquaint the undergraduate student with significant problems and developments of current interest in mechanical engineering. This course and an accompanying ME 495 course will satisfy one technical elective requirement. Course is repeatable (with different topics) two times.

ME 495. WKU ME SELECTED PROJECTS. (1) *Prerequisite: Permission of instructor.* An advanced special project course delivered by WKU faculty to allow undergraduate students the opportunity to execute a relevant project of current interest in mechanical engineering. This course accompanies a ME 494 course, and together will satisfy one technical elective requirement. Course is repeatable (with different topics) two times.

ME 496. WKU – ME SELECTED TOPICS (FALL). (3) *Prerequisite: Permission of instructor.* Advanced special topics delivered in the fall semester by WKU faculty to acquaint the undergraduate student with significant problems and developments of current interest in mechanical engineering. Course is repeatable (with different topics) two times.

ME 497. WKU – ME SELECTED TOPICS (SPRING). (3) *Prerequisite: Permission of instructor.* Advanced special topics delivered in the spring semester by WKU faculty to acquaint the undergraduate student with significant problems and developments of current interest in mechanical engineering. Course is repeatable (with different topics) two times.

ME 498. UK – ME SELECTED TOPICS (FALL). (3) *Prerequisite: Permission of instructor.* Advanced special topics delivered in the fall semester by UK faculty to acquaint the undergraduate student with significant problems and developments of current interest in mechanical engineering. Course is repeatable (with different topics) two times.

ME 499. UK – ME SELECTED TOPICS (SPRING). (3) *Prerequisite: Permission of instructor.* Advanced special topics delivered in the spring semester by UK faculty to acquaint the undergraduate student with significant problems and developments of current interest in mechanical engineering. Course is repeatable (with different topics) two times.

METR– METEOROLOGY AND CLIMATOLOGY
DEPARTMENT OF GEOGRAPHY AND GEOLOGY

METR 121. METEOROLOGY. (3) An introduction to the elements of the atmosphere, severe storms, atmospheric environmental issues, the interdependence between human life and the atmosphere, and rudimentary forecasting of basic weather systems. A self-paced laboratory is required. (2 hour lecture; 1 hour lab) ***Course Fee | Colonnade E-NS (SL) | NS | SL***

METR 122. AVIATION METEOROLOGY. (3) The emphasis of the course will be on weather elements and their measurements, weather instruments, weather codes needed by aviators, weather effects upon flying, and weather hazards of aviation.

METR 322. GLOBAL CLIMATE SYSTEMS. (4) *Prerequisites: METR 121; 21 hours of Foundations and Explorations Courses, or junior status*. Analyzes the elements of climate and their world distribution with emphasis on the climatic controls and processes; surveys the influences of climates on environment; introduces climatic classification systems and climatological regions of the world. ***Colonnade K-SY***

METR 324. WEATHER ANALYSIS AND FORECASTING. (3) *Prerequisite: METR 121 or permission of instructor.* Analysis of the atmosphere using satellite and radar imagery. Weather forecasting techniques using surface and upper air data are also examined. ***Course Fee***

METR 325. METEOROLOGICAL INSTRUMENTATION AND MEASUREMENT. (3) *Prerequisite: METR 121.* Introduces the purpose, operation, and application of meteorological instrumentation and the treatment of meteorological measurements. ***Course Fee***

METR 335. SATELLITE / RADAR METEOROLOGY. (3) *Prerequisite: METR 324.* An introduction to remote sensing specific to the atmospheric sciences. Specific attention is given to analysis, diagnostic, and prognostic determinations using various satellites, as well as surface and space-based active radar systems. Specific applications focus on synoptic and mesoscale phenomena, including large-scale kinematics and morphology, clouds, derived radar interpretation, precipitating systems, and precipitation measurement.

METR 422. PHYSICAL CLIMATOLOGY. (4) *Prerequisites: METR 324 and MATH 237, both with grades of "C" or better.* Addresses the complexity of climactic processes at various spatial and temporal scales. Budgets of energy, water, and momentum, and soil-plant-atmosphere interactions at the earth's surface are explored from both a theoretical and practical point of view.

METR 426. APPLIED METEOROLOGY / CLIMATOLOGY. (3) *Prerequisite: METR 121 or permission of instructor.* This course offers a practical insight into the influence of meteorology and climatology on everyday life. Environmental problems caused by changes in the atmosphere are also examined.

METR 431. DYNAMIC METEOROLOGY I. (3) *Prerequisites: METR 324 and MATH 237, both with grades of "C" or better.* Introduction to large-scale dynamics of the Earth's troposphere focusing on fundamental topics, the basic governing equations of motion in the atmosphere, and dry thermodynamics.

METR 432. SYNOPTIC METEOROLOGY. (3) *Prerequisites: METR 324 and MATH 237, both with grades of "C" or better.* Addresses the analysis and prediction of large-scale weather systems, such as extra-tropical cyclones, fronts and jet streams through the application of fundamental dynamical concepts of meteorology. ***Course Fee***

METR 433. DYNAMIC METEOROLOGY II. (3) *Prerequisite: METR 431 with a grade of "C" or better.* Analysis of phenomena related to large scale dynamics of the Earth's troposphere including thermodynamics, elementary applications of the basic equations, and circulation and vorticity.

METR 437. MESOSCALE METEOROLOGY. (3) *Prerequisites: METR 432 with a grade of "C" or better.* Addresses the analysis and prediction of convective and Mesoscale phenomena, such as Mesoscale convective systems, severe thunderstorms, tornadoes and hurricanes. ***Course Fee***

METR 438. PHYSICAL METEOROLOGY. (3) *Prerequisites: METR 431 with a grade of "C" or better.* Addresses the microscopic processes related to cloud formation, radiative transfer, precipitation processes, and dry and moist thermodynamics.

METR 439. ATMOSPHERIC MODELING. (3) *Prerequisites: METR 324 and CS 170 both with grades of "C" or better.* An introduction to numerical weather and climate modeling techniques and models, with focus on modeling fundamentals, including dynamics, physical parameterizations, grids and resolutions, model structures and components. Includes hands-on experience with designing numerical experiments, configuring and running model simulations, post-processing model outputs, and visualization.

METR 460. CLIMATE TELECONNECTIONS. (3) *Prerequisites: METR 322 or METR 324 or permission of instructor.* Analysis of the climate impacts and physical mechanisms of atmospheric and oceanic telecommunications that commonly affect weather patterns in the northern hemisphere.

MFG– MANUFACTURING MANAGEMENT
SCHOOL OF PROFESSIONAL STUDIES

MFG 240C. MANUFACTURING OPERATIONS MANAGEMENT. (3) *Prerequisite: MGT 210.* A course designed to provide an overview background in manufacturing (product) operations management for production, supervisory and support personnel. Topics include analysis of production activities, techniques to improve production, planning, work measurement, material control, and forecasting.

MFG 245C. MANUFACTURING QUALITY MANAGEMENT. (3) *Prerequisite: MGT 210.* A course designed to provide a background in manufacturing quality assurance for production, supervisory and support personnel. Topics include quality philosophies, issues related to quality control systems and statistical process control concepts and applications.

MGE – MIDDLE GRADES EDUCATION
SCHOOL OF TEACHER EDUCATION

MGE 275. FOUNDATIONS OF MIDDLE GRADES INSTRUCTION. (3) This course presents the philosophy, development, curriculum of middle grades education, through an emphasis on appropriate ethical behavior of teachers. Develops generic teaching skills related to effective teaching. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

MGE 385. MIDDLE GRADES TEACHING STRATEGIES. (3) *Prerequisite: MGE 275.* Emphasizes the demonstration of generic teaching strategies and communication skills related to middle grades education and the integration of content methodologies, including classroom management practices and multicultural awareness through interdisciplinary / cooperative planning. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

MGE 475. TEACHING LANGUAGE ARTS. (3) *Prerequisites: MGE 275, PSY 310, ENG 302 and two of the following courses: 301, 401 or 410.* Develops skills, curriculum, and strategies for teaching English in middle school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to SEC 475.

MGE 477. TEACHING MIDDLE GRADES MATHEMATICS. (3) *Prerequisites: MGE 275, PSY 310, MATH 211 and 212 (with departmental approval, students may substitute MATH 205 and 206).* Cooperative learning, manipulatives, technology, and problem solving are modeled, discussed, and applied using methods and materials appropriate for middle school students. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

MGE 479. TEACHING SCIENCE. (3) *Prerequisites: MGE 275, PSY 310.* Develops the skills, procedures, and strategies for teaching science in middle school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to SEC 479.

MGE 481. TEACHING SOCIAL STUDIES. (3) *Prerequisites: MGE 275, PSY 310.* Develops skills, procedures, and strategies for teaching social studies in middle school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to SEC 481.

MGE 490. STUDENT TEACHING. (5-10) *Prerequisites: Admission to Teacher Education; admission to student teaching; and completion of all required courses in the major with grades of "C" or higher. Corequisite: EDU 489.* Supervised assignment in approved school setting. Must complete a minimum of sixteen weeks in one or two placements depending on certification requirements. Students follow the academic calendar of the school district in which they are placed and are responsible for providing their own transportation to assigned site(s). ***Course Fee***

MGT / MGMT – MANAGEMENT
DEPARTMENT OF MANAGEMENT (MGT)
SCHOOL OF PROFESSIONAL STUDIES (MGMT)

MGT 200 / MGMT 200C. LEGAL ENVIRONMENT OF BUSINESS. (3) *Prerequisite: Sophomore standing.* An introduction to the American public law system; use of law to achieve economic and social goals; legal responsibilities of the business manager. ***Course Fee***

MGT 210. ORGANIZATION AND MANAGEMENT. (3) *Prerequisite: Sophomore standing.* An introduction to organization theory and organizational behavior. The course focuses on managing people and material resources to enhance organizational productivity and effectiveness. Attention is given to the managerial functions of planning, organizing, leading and controlling. ***Course Fee***

MGT 301. BUSINESS LAW. (3) *Prerequisite: Junior standing.* A basic course in commercial law covering contracts, property, creditor rights, torts and other bases for liability and the Uniform Commercial Code. ***Course Fee***

MGT 303. INTERNATIONAL BUSINESS. (3) *Prerequisites: MGT 210 and junior standing.* Fundamentals of international business particularly in planning, organizing, and control aspects of the multinational enterprise. Roles of government, culture, foreign currency, taxes, political risk, and legal formalities for small and large firms entering new markets are emphasized. ***Course Fee***

MGT 305. ETHICS AND CRITICAL THINKING. (3) *Prerequisites: MGT 200 and junior standing.* This course is designed to develop skills needed for analyzing a problem or situation to arrive at a hypothesis or conclusion about it after synthesizing or integrating all available information. In critical thinking, all assumptions are open to question, divergent views are sought, and the investigation is not biased in favor of a particular solution. ***Course Fee***

MGT 311. HUMAN RESOURCE MANAGEMENT. (3) *Prerequisite: Completion of MGT 210, AMS 430 or COMM 362.* An introduction to major human resource management functions, including personnel selection; recruitment; training and development; performance appraisal; compensation; health and safety; labor-management relations; and employment law. ***Course Fee***

MGT 313. DECISION MODELING. (3) *Prerequisites: ECON 206, CIS 243.* This course deals with modeling problems that are similar to those faced by business managers. The problem is viewed as the focal point of analysis, and appropriate decision modeling tools are applied to obtain a solution. ***Course Fee***

MGT 314. OPERATIONS MANAGEMENT. (3) *Prerequisites: ECON 206 or equivalent and junior standing.* The management of the direct resources required to produce goods and services. Operations objectives are cascaded through the organization and are translated into measurable terms that become part of the operating goals for production-related departments and their managers. ***Course Fee***

MGT 316. INTERNATIONAL MANAGEMENT. (3) *Prerequisite: MGT 303 or by instructor's approval.* A study of techniques and methods involved in managing an international business, with an emphasis on managerial issues unique to the global environment. ***Course Fee***

MGT 326. MANAGING PROJECTS IN ORGANIZATIONS. (3) *Prerequisites: MGT 210 and ECON 206.* Project Management is a business tool that focuses on the projects central role in organizations along with addressing the project life-cycle and techniques for initiation, planning, scheduling, controlling and execution. Emphasis is on organizational, managerial, human behavior and interdisciplinary issues relevant for managing successful projects from the business perspective. ***Course Fee***

MGT 333. MANAGEMENT OF NONPROFIT ORGANIZATIONS. (3) Overview of nonprofit organizations, including budgeting, finance, marketing, communication, boards of directors, volunteers and strategic planning. ***Course Fee***

MGT 361. BUSINESS COMMUNICATION FUNDAMENTALS. (3) Emphasis on communication fundamentals essential for business. Electronic communications in the business environment, research tools for business, reports, presentations, resumes and correspondences. ***Course Fee***

MGT 383. HUMAN RESOURCE INFORMATION SYSTEMS. (3) *Prerequisite: MGT 311 and CIS 243.* Components of HRIS and how one can be used to create a competitive advantage. Spreadsheet analysis will be also used to develop analytical skills. ***Course Fee***

MGT 390. VALUE CREATION IN EMERGING MARKETS. (3) *Prerequisite: Junior standing.* Examination of techniques for competing in emerging markets. ***Course Fee***

MGT 400. EMPLOYMENT LAW. (3) *Prerequisite: MGT 200 or permission of instructor.* An overview of the myriad of laws affecting personnel decisions. Discussions will focus on the implications of employment-at-will, equal employment opportunity, ERISA, FLSA, IRCA, NLRA, OSHA, workers' compensation, and other regulatory development. ***Course Fee***

MGT 410. SENIOR SEMINAR-MANAGEMENT. (3) *Prerequisites: Senior standing and permission of instructor.* A special topics course covering subjects of current interest in management. (Can be repeated for a total of 6-9 hours). ***Course Fee***

MGT 411. EFFECTIVE STAFFING PRACTICES. (3) *Prerequisite: MGT 311 or PSYS 370.* Explores the development and utilization of employee assessment methods. Specifically covers fair recruitment, hiring, and performance appraisal practices including application processes, interviews, assessment centers, and employee testing. ***Course Fee***

MGT 413. INTERNATIONAL HUMAN RESOURCE MANAGEMENT. (3) *Prerequisite: MGT 311.* Covers issues involved with managing human resources globally. Compares customs and regulations among various countries in the core areas of human resource management, including selection, development, compensation, performance management, and labor relations. ***Course Fee***

MGT 414. COMPENSATION ADMINISTRATION. (3) *Prerequisite: MGT 311.* An investigation of the concepts and practices affecting compensation decisions in organizations, with emphasis on job analysis and evaluation, external competitiveness, employee motivation, legal requirements, and benefit administration. ***Course Fee***

MGT 416. MANAGEMENT OF LABOR RELATIONS. (3) *Prerequisite: MGT 311.* Legal and social context of the labor-management relationship in union and non-union environments; formation, structure and functioning of labor unions; union elections; collective bargaining; contract administration; dispute settlement; impasse resolution; and union avoidance. ***Course Fee***

MGT 417. ORGANIZATIONAL BEHAVIOR. (3) *Prerequisite: MGT 210.* An advanced course designed to develop an understanding of managing behavior in organizations. ***Course Fee***

MGT 419. MANAGEMENT OF ORGANIZATIONAL CONFLICT. (3) *Prerequisite: Junior standing.* Designed to develop skills needed to manage interpersonal, intragroup, and intergroup conflict in organizations. ***Course Fee***

MGT 473. TRAINING IN BUSINESS AND INDUSTRY. (3) *Prerequisite: MGT 311 or PSYS 370 or permission of the instructor.* An introduction to theories, research and methods of training needs analysis, program design, implementation, and evaluation. Equivalent to PSYS 473. ***Course Fee***

MGT 490. PRACTICUM IN MANAGEMENT. (3) *Prerequisites: Junior standing; 2.5 cumulative GPA; MGT 210 and 6 additional hours of Management courses; Permission of the Management Chair and the instructor.* Internships, independent studies, and special projects of interest to students and faculty in the Management area. These may include individual research projects, meaningful internships in profit or not-for-profit organizations with duties relating to Management, or other special projects approved by the Management Chair and the Management faculty. (Grading: Pass / Fail) ***Course Fee***

MGT 495. STRATEGIC HUMAN RESOURCES MANAGEMENT. (3) *Prerequisites: MGT 311, 305.* Case studies to evaluate the role human resources management plays in an organization. Discussions will center around how talent can be used to support an organization's strategic advantage and create a competitive advantage. ***Course Fee***

MGT 498. STRATEGY AND POLICY. (3) *Prerequisites: Senior standing and ACCT 201, CIS 243, FIN 330, MGT 210, MGT 314, MKT 220.* The development and application of contemporary competitive strategies at mid and upper managerial levels. Capstone course uses cases and/or simulation to integrate materials from prerequisite courses. ***Course Fee***

MGT 499. SENIOR ASSESSMENT IN MANAGEMENT. (1) *Prerequisites: Senior standing.* Special Information: The course may be taught on a bi-term basis. The course will be graded on a pass/fail basis and will be required of all Management majors in their last semester. Preparation for and administration of the senior assessment exam. Discussion of educational and career opportunities beyond the baccalaureate degree. (Grading: Pass / Fail) ***Course Fee***

MIL– Military Science
Department of Military Science and Leadership

BASIC COURSE (MIL I AND MIL II)

MIL 101. MILITARY MOUNTAINEERING AND LEADERSHIP. (2) Introduction to military mountaineering operations and leadership. Fundamentals of basic rappelling, belaying, rope bridges and application of leadership in practical exercises. Field trips to off-campus locations may be required, and transportation will be provided. ***Course Fee***

MIL 102. DEVELOPMENTAL SKILLS. (2) Continues the student's education in military and "life skills" lessons in the areas of problem solving, critical thinking, leadership theory, basic first aid, survival skills and group interaction.

MIL 201. BASIC LEADERSHIP. (3) *Prerequisites: MIL 101 and 102 or PMS permission*. Prepares the cadet to become an effective small unit leader. Topics include leadership doctrine, ethics, communications, first aid and land navigation.

MIL 202. TEAM BUILDING AND MILITARY DOCTRINE. (3) *Prerequisites: MIL 101, 102, and 201, or PMS permission.* Introduces cadets to military doctrine and tactics, values and ethics, and officership. The latter includes extensive work in military oral and written communication skills as well as the role of the United States Army from Vietnam to present day.

MIL 209. INTRODUCTION TO MILITARY LIFE. (1) *Prerequisite: Permission of the PMS.* A basic introduction to the Army standards and procedures for students who plan to attend the United States Army ROTC Leader's Training Course, Ft. Knox, KY.

MIL 210. MILITARY SCIENCE PRACTICUM (CADET INITIAL ENTRY TRAINING). (6) Introduces military science in a comprehensive course designed to be taken in lieu of MIL 101, 102, 201, and 202 for students who were unable to take these courses. The course is held at Fort Knox, KY during the summer and emphasizes practical application of military skills and development of leadership abilities. Students are provided room and board and paid approximately $800 for attending. Prior to enrollment in this course, the student must meet academic and physical standards established by the Army. To receive credit for this course, at no cost, see the Professor of Military Science.

ADVANCED COURSE (MIL III AND MIL IV)

MIL 301. MILITARY LEADERSHIP AND MANAGEMENT. (3) *Prerequisite: Permission of the PMS.* Principles and techniques of leadership and management including leadership techniques and training, introduction to basic military weapons, and ethics and professionalism.

MIL 302. MILITARY LEADERSHIP AND ADVANCED TACTICAL SKILLS. (4) *Prerequisite: Permission of the PMS.* Principles and fundamentals of small unit tactics and communications with emphasis on leadership techniques for controlling and employment of small units. Includes communication, map reading, and troop leading procedures.

MIL 401. PROFESSIONAL LEADERSHIP SKILLS. (3) *Prerequisite: Permission of the PMS.* Focuses on military leadership and management principles. Discussion and practical exercises in leadership principles and traits, organizational leadership, counseling techniques, management, delegation and control.

MIL 402. ROLE OF THE ARMY OFFICER. (4) *Prerequisite: Permission of the PMS.* The final course of the advanced program focuses on Army combat operations, logistics, administration, readiness, military justice, leadership, management, and preparation for commissioning.

MIL 410. MILITARY SCIENCE PRACTICUM (CADET LEADER COURSE). (6) *Prerequisite: Permission of the PMS.* Develops leadership through an intensive five-week summer field course of rotating leader/command roles, practical experience in problem analysis, decision making and troop leading while providing in-depth coverage of technical subjects. Successful completion of this course is required. Prior to enrollment, the student must meet the physical and academic standards established by the Army.

MIL 490. MILITARY LEADERSHIP SEMINAR. (1) *Prerequisite: Permission of the PMS.* Practical applications of military leadership skills, military bearing and physical fitness are stressed. Course is designed to assist students in the transition to Army officer status and continue their physical conditioning. Field experience on military installations is required (transportation provided).

MKT – Marketing
Department of Marketing

MKT 220. BASIC MARKETING CONCEPTS. (3) *Prerequisite: Sophomore standing.* Introduction to the functional activities of marketing including product, distribution, promotion, and pricing decisions; the importance of a consumer orientation; and strategic marketing planning including implementation and control of marketing activities. ***Course Fee***

MKT 321. CONSUMER BEHAVIOR. (3) *Prerequisite: MKT 220.* A study of the basic concepts underlying consumer behavior; sociological and psychological phenomena which influence consumer behavior, and research approaches which allow marketers to predict and influence behavior. ***Course Fee***

MKT 322. INTEGRATED MARKETING COMMUNICATIONS. (3) *Prerequisite: MKT 220.* This course examines the various components of the promotional mix both individually and collectively as an integrated whole. It addresses the need to target appropriate marketing communications to the publics of interest to both profit and nonprofit organizations. ***Course Fee***

MKT 323. SERVICES MARKETING. (3) *Prerequisite: MKT 220.* A study of marketing as it applies to intangible products such as professional, health care, financial, and hospitality services. The course pays special attention to the interaction between marketing management and the simultaneous creation, delivery and consumption of services. ***Course Fee***

MKT 324. INTERNATIONAL MARKETING. (3) *Prerequisite: MKT 220.* Theory, concepts and practices of firms engaged in various levels of international marketing. Emphasis placed on developing marketing strategies consistent with environmental opportunities. ***Course Fee***

MKT 325. PERSONAL SELLING. (3) *Prerequisite: Junior standing.* A study of the fundamentals of personal selling with emphasis on self-confidence, control in the sales interaction, and appropriate sales techniques. Extensive opportunity is provided in the classroom for experience with various personal selling situations. ***Course Fee***

MKT 326. SPORTS MARKETING. (3) *Prerequisite: MKT 220.* This course explores one of the most important links between the sports industry and business. Emphasis is placed on the marketing of sports, such as the marketing performed by teams, leagues and sporting goods manufacturers, and marketing through sports, which entails using sports images and personalities to market non-sports products and services. ***Course Fee***

MKT 327. RETAILING MANAGEMENT AND STRATEGY. (3) *Prerequisite: MKT 220.* A study of the principles that underlie the successful operation of a company distributing goods and services directly to the ultimate consumer. This will include, but is not limited to, strategic decisions such as site selection, franchising, and target markets, as well as management decisions such as pricing, personnel selection, merchandising, and atmospheric design. ***Course Fee***

MKT 328.DIGITAL MARKETING. (3) *Prerequisites: MKT 220 and CSCI 145C or CIS 141.* An entrepreneurial-oriented, applied course designed to thoroughly familiarize the student with the primary aspects of marketing on the World Wide Web. ***Course Fee***

MKT 329. BUSINESS-TO-BUSINESS MARKETING. (3) *Prerequisite: MKT 220.* Provide information specifically targeted at the field of business-to-business marketing. Explore the challenges, the environmental influences and managerial issues related to the marketing mix decision variables, product, place, promotion, and price, in a business-to-business setting. ***Course Fee***

MKT 331. SOCIAL MEDIA MARKETING. (3) *Prerequisite: MKT 220.* The use of online social channels (social networking sites, websites, search engines, forums/message boards, video-sharing sites) to achieve marketing goals, including targeting markets on the social web, increasing effectiveness of communication in social web channels, and measuring the success of social media marketing campaigns. ***Course Fee***

MKT 420. SENIOR SEMINAR-MARKETING. (3) *Prerequisite: MKT 220.* A special topics course covering subjects of current interest in marketing. ***Course Fee***

MKT 421. MARKETING RESEARCH. (3) *Prerequisites: MKT 220, ECON 306 (or comparable statistics course).* Analysis of the interaction between marketing information needs and decision-making; planning, executing and reporting results of research using modern research methods and applied statistics are stressed. ***Course Fee***

MKT 422. MARKETING MANAGEMENT. (3) *Prerequisites: MKT 421 and graduating marketing major.* An in-depth study of marketing activities from a managerial perspective. Areas of study include strategic planning; segmentation and target marketing; consumer behavior; marketing research; product, promotion, pricing, and distribution decisions; services marketing; and international marketing. A lecture course. ***Course Fee***

MKT 423. SUPPLY CHAIN MANAGEMENT. (3) *Prerequisite: MKT 220.* A primarily non-quantitative study of the Place function of the marketing mix. An examination of the process of moving a product, idea or service from the producer to the ultimate purchaser. Topics of interest may include channel structures, transportation modes, channel power, conflict, negotiation strategies, and the various tools used by channel members. ***Course Fee***

MKT 424. SALES FORCE MANAGEMENT. (3) *Prerequisite: MKT 220, MKT 325.* Principles and concepts of sales planning and control, organizing sales departments, developing territories, recruiting, selecting, training, motivating and compensating salespeople, and controlling sales operations. ***Course Fee***

MKT 425. ADVANCED PERSONAL SELLING STRATEGIES. (3) *Prerequisites: MKT 220, MKT 325, senior standing (90 hours successfully completed).* An advanced, experiential course designed to thoroughly familiarize the student with all of the primary aspects of personal selling, from a hands-on, applied approach. ***Course Fee***

MKT 427. ENTREPRENEURIAL MARKETING. (3) *Prerequisite: MKT 220.* A study of key marketing strategies relevant to new ventures that prepares students to work in an entrepreneurial firm or to run their own business. ***Course Fee***

MKT 431. ADVANCED SOCIAL MEDIA MARKETING. (3) *Prerequisite: MKT 331.* Provides a more advanced perspective on knowledge gained in MKT 331, Social Media Marketing. Students will apply concepts through development of strategies and content for a variety of social media platforms, as well as gauge the effectiveness of content creation through analytics. ***Course Fee***

MKT 490. PRACTICUM IN MARKETING. (1-3) *Prerequisites: 2.75 cumulative GPA, MKT 220, 6 additional hours of marketing, and permission of instructor.* Internships, independent studies, and special projects of interest to the students and faculty in the marketing area. These may include individual research projects approved by the department head and supervised by a member of the marketing faculty, meaningful internships with area businesses with duties relating to marketing, or other special projects which may be approved by the department head and the marketing faculty. (Grading: Pass / Fail) ***Course Fee***

MKT 491. MARKETING STUDY ABROAD. (1-6) *Prerequisite: Permission of instructor.* Experiential learning taking place in a foreign culture in a foreign country. Provides students with the opportunity to experience and learn about marketing in a foreign nation. This may be part of a formalized program (i.e., KIIS or CCSA) or it could be a customized program developed within the department for an individual or small group of students. This course may be repeated one time, but no more than 6 total hours can be included in the major or minor portion of the degree program. ***Course Fee***

MKT 499. SENIOR ASSESSMENT. (1) *Prerequisite: Senior standing.* Preparation for and administration of the senior assessment exam. Discussion of educational and career opportunities beyond the baccalaureate degree. ***Course Fee***

MLNG – MODERN LANGUAGES
DEPARTMENT OF MODERN LANGUAGES

MLNG 100. LANGUAGE AND CULTURE ON-SITE. (1-3) This course is a survey of non-English language and foreign culture in conjunction with study abroad for students with little or no previous language study. This course will be used in instances where WKU does not offer the language in question. Repeatable for a total of three credit hours.

MLNG 410. SECOND LANGUAGE ACQUISITION. (3) *Prerequisites: Enrollment in P-12 certification program in French, German or Spanish and successful completion of at least two upper-division courses in the teaching language.* Introduction to principal theories of the acquisition of a second or foreign language. Explores how language learning styles and strategies relate to language acquisition and implications for the classroom.

MLNG 420. MULTIMEDIA TECHNOLOGIES IN TEACHING FOREIGN LANGUAGES. (3) *Prerequisites: Enrollment in K-12 certification program in French, German or Spanish or permission of instructor and successful completion of at least one upper-division course in the language of teaching certification.* Pedagogical and hands-on training for pre-teachers. Student will enroll in a course section for French, German or Spanish.

MLNG 474. TEACHING FOREIGN LANGUAGE. (3) *Prerequisites: EDU 250, SPED 330, SEC 351, PSY 310. Corequisite: SEC 453.* Develops skills, procedures, and strategies for teaching foreign language in middle and secondary schools. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to SEC 474.

MLNG 480. TOPICS IN MODERN LANGUAGE CULTURES AND PEDAGOGY. (1-3) *Prerequisites: Enrollment in K-12 certification program in French, German, or Spanish; successful completion of at least two upper-division courses in the teaching language; senior standing or permission of instructor*. Topics in Modern Language cultures and societies, including literature and the arts, social issues, and current events, as well as aspects of language pedagogy. Students enroll in course sections for the language of their major. May be repeated with different topics for a maximum of 6 hours of credit.

MUS – MUSIC
DEPARTMENT OF MUSIC (MUS)

MUSIC THEORY AND COMPOSITION

MUS 090. FUNDAMENTALS OF MUSIC THEORY. (3) *Prerequisite: Restricted to majors in music.* Prepares students for entry into MUS 100 in the theory sequence for music majors. Includes fundamental music notation, literacy, aural skills, clefs, notes, rhythms, keys, scales and intervals.

MUS 100. THEORY I. (3) *Prerequisite: Theory Placement Exam.* Thorough training in the melodic, harmonic and rhythmic fundamentals of music: triads, intervals, keys, scales, rhythm and meter, voice leading, diatonic triads in root position and inversion, harmonic progression, rhythmic reading, sight singing, melodic and harmonic dictation.

MUS 101. THEORY II. (3) *Prerequisite: MUS 100.* Continuation of melodic and harmonic dictation, rhythmic reading, and sight singing, phrase and period, non-chord tones, diatonic seventh chords, secondary dominant and leading tone chords.

MUS 175. UNIVERSITY EXPERIENCE-MUSIC MAJORS. (2) *Prerequisite: For beginning college freshmen music or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources and personal development. Special attention is given to music degree requirements, careers and resources in the field.

MUS 200. THEORY III. (3) *Prerequisite: MUS 101.* Continuation of melodic and harmonic dictation, rhythmic reading, sight singing, modulation, binary and ternary forms, mode mixture, Neapolitan chords, and augmented sixth chords.

MUS 201. THEORY IV. (3) *Prerequisite: MUS 200.* Continuation of melodic and harmonic dictation, rhythmic reading, and sight singing, composition of sonatina in eighteenth century style for piano, enharmonic modulation, extended and altered dominant chords, late nineteenth century techniques, techniques of the twentieth century, post-tonal techniques.

MUS 203. MUSIC TECHNOLOGY. (2) This course provides the student with a comprehensive overview of the current technological advances present in the music workplace.

MUS 206. COMPOSITION. (2) *Prerequisite: MUS 101 or consent of the instructor.* Study and assignment will depend on previous background and creative ability.

MUS 304. FORM AND ANALYSIS. (2) *Prerequisite: MUS 201*. The study of the basic formal structures of tonal and twentieth century music through score study and compositional exercises.

MUS 325. MUSIC ENTREPRENEURISM. (2) *Prerequisite: MUS 201*. The practical skills necessary for successfully navigating the business aspects of a professional musician in the 21st century. Topics range from creating resumes and cover letters to establishing a private teaching studio and booking concerts.

MUS 405. CHORAL ARRANGING. (3) *Prerequisite: MUS 201.* A study of the principles of part-writing, arranging, and editing for various voice groupings. Practical application for school and church choruses will be stressed.

MUS 407. ORCHESTRATION AND BAND ARRANGING. (3) *Prerequisite: MUS 201.* A study of the characteristics and techniques of the various orchestra and band instruments. Practical experience in scoring for full symphonic orchestra and symphonic band. Performances given for selected orchestrations and arrangements.

MUSIC EDUCATION

MUS 214. STRING TECHNIQUES. (1) This course is required for music education majors. It is designed to acquaint students with the techniques and pedagogy of the violin, viola, cello and string bass.

MUS 215. BRASS TECHNIQUES. (1) This course is required for music education majors. It is designed to acquaint students with the techniques and pedagogy of the high and low brass families.

MUS 311. MUSIC FOR THE ELEMENTARY TEACHER. (3) A required course for primary elementary education majors which centers on music as an aid in instruction of standard curricular subjects and techniques which classroom teachers can utilize to further develop the natural rote and rhythmic abilities of the young child.

MUS 312. TEACHING MUSIC IN THE PRIMARY GRADES. (3) A required course for music education majors which consists of developmentally appropriate techniques, methods and materials for pre-primary and primary learners. Observation and field experiences will be required.

MUS 314. COMPREHENSIVE ARTS EDUCATION FOR THE ELEMENTARY TEACHER. (3) Required for the elementary education major. Appropriate concepts, methods, and materials for weaving the arts (dance, drama, music, visual art) through the elementary school curriculum. Field experience in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

MUS 315. CLARINET AND SAXOPHONE TECHNIQUES. (1) This course is required for instrumental music education majors. It is designed to acquaint students with the techniques and pedagogy of the clarinet and saxophone.

MUS 316. FLUTE AND DOUBLE REED TECHNIQUES. (1) This course is required for instrumental music education majors. It is designed to acquaint students with the techniques and pedagogy of the flute, oboe, English horn and bassoon.

MUS 317. CONDUCTING I. (2) Patterns for each meter, uses of the left hand, cueing posture, attacks, releases, terminology and score study.

MUS 318. CONDUCTING II. (2) *Prerequisite: MUS 317.* Continuation of Conducting I. Score reading.

MUS 319. PERCUSSION TECHNIQUES. (1) This course is required for music education majors. It is designed to acquaint students with the techniques and pedagogy of the percussion instruments.

MUS 412. TEACHING MUSIC IN THE MIDDLE SCHOOL. (3) *Prerequisite: MUS 312.* A required course for music education majors which consists of developmentally appropriate techniques, methods and materials for learners ages 9-14. Observation and field experiences will be required.

MUS 414. CHORAL MATERIALS. (2) *Prerequisite: MUS 415.* A practical survey for the school and church musician of choral music from the fifteenth- through the twentieth-centuries. Course emphasis will be on the evolution of secular and sacred choral forms and performance practices, which would be accessible for most choral programs.

MUS 415. CHORAL METHODS. (3) A study of the techniques of choral development from rehearsal procedures to performance. Emphasis is also placed on cultivating choral musicianship, program planning and organizational development.

MUS 416. INSTRUMENTAL METHODS. (3) Organization of the school instrumental program; problems, materials and program planning for the school orchestra and band from the elementary grades through high school; special problems in connection with concerts, festivals, materials and administrative details.

MUS 417. MARCHING BAND TECHNIQUES. (2) Systems, mechanics, and charting the modern exhibition marching band, including visual support units.

MUSIC HISTORY AND LITERATURE

MUS 119. JAZZ APPRECIATION. (3) Survey of jazz from its origins to the present. Includes jazz elements, swing, bop, cool jazz, avant-garde and free jazz, among other topics.

MUS 120. MUSIC APPRECIATION. (3) A survey of music from early to modern times. The course aims to widen the musical horizons and receptivities of the general college student and to make him a more discriminating listener. Concerts, radio, and television programs are assigned for special listening. No formal background is required. ***Colonnade E-AH | AH***

MUS 277. WORLD MUSIC. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A cultural and functional analysis of traditional musical genres developed in world areas: Africa, America, Asia, Europe and Oceania. Emphasis will be placed on musical styles, performance practices, aesthetics, and instruments. ***Colonnade K-LG***

MUS 320. ROCK AND ROLL: MUSIC FOR A NEW GENERATION. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. A study of the development of Rock and Roll as a musical style from the mid-1950's to 1990 with an emphasis on listening and musical characteristics. Includes notable artists/bands, innovations and trends, cultural and social impacts, and economic / political influences. ***Colonnade K-SC***

MUS 322. THE BLUES: MUSIC FROM THE DELTA TO CHICAGO. (3) *Prerequisite: 21 hours of Foundations and Explorations courses or junior status.* A study of the Blues as an American music genre with emphasis on the performers, musical styles, instrumentation, and lyric content, as well as the development of cultural, social, economic, and political impact. ***Colonnade K-SC***

MUS 323. MUSIC AND DRAMA: FROM OPERA TO MUSICAL THEATRE AND FILM. (3) *Prerequisites: MUS 120 and 21 hours of Foundations and Explorations Courses, or junior status.* How music intensifies dramatic situations in opera, the musical, and film. Will include considerations of influences from earlier music, literature, tastes of the audience, and social conditions. ***Colonnade K-SC***

MUS 326. THE HISTORY OF MUSIC I. (3) Music history from early times through Late Baroque. Assigned readings and recorded illustrations.

MUS 327. THE HISTORY OF MUSIC II. (3) *Prerequisite: MUS 120 or instructor permission required; 21 hours of Foundations and Explorations Courses, or junior status.* Music history from Classical through present. Assigned readings and recorded illustrations. ***Colonnade K-SC***

MUS 328. THE HISTORY OF MUSIC III. (3) Music history from Wagner through the present day. Assigned readings and recorded illustrations.

MUS 430. MUSIC LITERATURE. (3) A variable topic course which may be taken more than once for credit. Typical term sub-titles are as follows: American Music, Band Literature, Baroque Period, Chamber Music, Keyboard Literature, Medieval and Renaissance Music, Opera Literature, Symphonic Literature, Vocal Literature, World Music.

PEDAGOGY

MUS 310. PEDAGOGY FOR PERFORMANCE MAJORS. (3) A required course for Bachelor of Music (B.M.) in performance majors, which centers on teaching in their particular area of performance and provides a knowledge of basic repertoire.

MUS 338. DIR INDEPENDENT STUDY. (1-3) *Prerequisite: Permission of instructor.* Supervised, guided individual study in a specialty area.

ENSEMBLES

MUS 340. CHOIR. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 343. GUITAR ENSEMBLE. (1) *Additional Enrollment Requirements: Instructor permission.* Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 344. UNIVERSITY ORCHESTRA. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 347. MARCHING BAND. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees. ***Course Fee***

MUS 348. CONCERT BAND. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 370. CHAMBER CHOIR. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 371. JAZZ ENSEMBLE. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 377. PEP BAND. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Repeatable throughout a student' college career.

MUS 378. CAMPUS COMMUNITY BAND. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees

PERFORMANCE CLASSES

MUS 155. PERFORMANCE ATTENDANCE. (0) *Prerequisite: Restricted to majors in music.* Attendance at 14 recitals and / or concerts within one semester from a music department approved list. (Grading: Pass / Fail)

MUS 374. OPERA THEATRE. (1) Performing ensembles are open to the entire campus community. Most ensembles require an audition prior to membership, and there are varying levels of performance difficulty. Some of these ensembles are required for music degrees.

MUS 379. CHAMBER MUSIC. (1) This course presupposes that the student has attained considerable ability as a performer. Preparation and performance of all types of chamber music literature. Credits will be given for as many semesters as taken. (Subtitles: Accompanying, Brass Ensemble, Early Music Ensemble, Double Reed Ensemble, Guitar Ensemble, Jazz Improvisation Ensemble, Percussion Ensemble, String Ensemble, Vocal Ensemble, Woodwind Ensemble, Orchestra Strings)

APPLIED MUSIC SKILLS CLASSES

MUS 152. DICTION I FOR VOICE MAJORS. (1) Review of the use of the International Phonetic Alphabet and its application to the German and Italian languages using appropriate vocal literature.

MUS 160. GROUP PIANO I. (1) A course for beginners. Scales and keyboard skills.

MUS 161. GROUP PIANO II. (1) A course for beginners. Scales and keyboard skills.

MUS 162. GROUP VOICE. (1) An exploratory course in the theory and practice of the development of the singing voice. Natural breathing, correct tone production.

MUS 166. GROUP GUITAR I. (1) Group instruction in the basic elements of guitar and the rudiments of music to include time signatures, notation, transposition, bar chord techniques, scales and triads.

MUS 252. DICTION II FOR VOICE MAJORS. (1) Review of the use of the International Phonetic Alphabet and its application to the French and English languages using appropriate vocal literature.

MUS 260. GROUP PIANO III. (1) Keyboard skills to include cadential progressions in all keys, harmonization of diatonic melodies in simple keys, playing by ear, sight reading, scales and development of techniques adequate to a moderately easy Clementi *Sonatina*.

MUS 261. GROUP PIANO IV. (1) Keyboard skills to include cadential progressions in all keys, harmonization of diatonic melodies in simple keys, playing by ear, sight reading, scales and development of techniques adequate to a moderately easy Clementi *Sonatina*.

MUS 266. GROUP GUITAR II. (1) *Prerequisite: Group Guitar I or consent of instructor.* Continuation of development of basic skills learned in Group Guitar I, with addition of more difficult repertoire. Classical, Pop, Jazz, and Folk Styles included.

MUS 360. ACCOMPANYING. (1) *Special Course Requirements: Instructor permission.* Accompanying skills to include exercise appropriate for choral/vocal warm-up, instrumental and vocal solo accompaniments, choral accompaniments, and choral part-reading.

APPLIED MUSIC INSTRUCTION

MUS 150, 350. APPLIED MUSIC SECONDARY. (1) Secondary lessons for non-majors. ***Course Fee***

MUS 153, 353. APPLIED MUSIC PRINCIPAL. (2) *Corequisite: MUS 155.* Principal lessons for music majors. ***Course Fee***

MUS 357, 457. APPLIED MUSIC MAJOR. (3) *Corequisite: MUS 155.* Principal lessons for music majors. ***Course Fee***

NURS / NUR – NURSING
SCHOOL OF NURSING

ASSOCIATE OF SCIENCE IN NURSING COURSES

NUR 104. CALCULATIONS FOR NURSING. (1) *Prerequisite: Admission to the nursing program.* An introduction to medication dosage calculations, symbols, abbreviations, unit dosing, and system equivalent conversion operations. Emphasis of course is on medication problems involving metric and household measurement conversions necessary for medication administration in nursing.

NUR 105. FUNDAMENTALS OF NURSING. (6) *Prerequisite: Admission to the nursing program. Corequisite: NUR 106. Prerequisites or corequisites: NURS 104, PSY / PSYS 220, BIOL 131.* Introduces fundamental nursing concepts and principles utilizing basic human needs, developmental theory, nursing process, and evidence-based interventions to promote and maintain health for selected populations. ***Course Fee***

NUR 106. FUNDAMENTALS OF NURSING CLINICAL. (1) *Prerequisite: Admission to the nursing program. Prerequisites or corequisites: NUR 104, 105, PSY / PSYS 220, BIOL 131.* Application of fundamental nursing concepts, principles, and skills. ***Course Fee***

NUR 150. LPN TO RN TRANSITION. (1) *Prerequisite: Admission to the nursing program. Prerequisites or corequisites: PSY / PSYS 220, BIOL 131.* Concepts required to transition from the licensed practical nurse to the registered nurse role.

NUR 155. MEDICAL-SURGICAL NURSING I. (6) *Prerequisites: NUR 104, 105, 106, 150, BIOL 131, PSY / PSYS 220. Prerequisite or corequisite: BIOL 207.* Medical-surgical concepts utilizing basic human needs, developmental theory, nursing process, and evidence-based interventions to promote and maintain health for selected populations. ***Course Fee***

NUR 156. MEDICAL-SURGICAL NURSING I CLINICAL. (2.) *Prerequisites: NUR 104, 105, 106, 150, BIOL 131, PSY / PSYS 220. Prerequisite or corequisite: NUR 155, BIOL 207.* Application of medical-surgical nursing concepts, principles, and skills.

NUR 157. MEDICAL-SURGICAL NURSING I SKILLS LAB. (1) *Prerequisites: NUR 104, 105, 106, 150, BIOL 131, PSY / PSYS 220. Prerequisites or corequisites: NUR 155, BIOL 207.* Application of medical-surgical nursing concepts, principles and skills. ***Course Fee***

NUR 165. MENTAL HEALTH NURSING. (3) *Prerequisites: NUR 104, 105, 106, 150, BIOL 131, PSY / PSYS 220. Prerequisite or corequisite: BIOL 207.* Includes mental health nursing concepts utilizing basic human needs, developmental theory, nursing process and evidence-based interventions to promote and maintain health for selected populations.

NUR 166. MENTAL HEALTH NURSING CLINICAL (1) *Prerequisites: NUR 104, 105, 106 150, BIOL 131, PSY / PSYS 220. Prerequisite or corequisite: NUR 165, BIOL 207.* Application of mental health nursing concepts, principles, and skills.

NUR 208. MEDICAL-SURGICAL NURSING II. (5) *Prerequisites: NUR 155, 156, 157, 165, 166, BIOL 207. Prerequisites or corequisites: ENG100.* Expansion on previous medical-surgical concepts utilizing basic human needs, developmental theory, nursing process, and evidence-based interventions to promote and maintain health for selected populations. ***Course Fee***

NUR 209. MEDICAL-SURGICAL NURSING II CLINICAL. (3) *Prerequisites: NUR 155, 156, 157, 165, 166, BIOL 207. Prerequisites or corequisites: NUR 208, ENG 100.* Application of medical-surgical nursing concepts, principles and skills.

NUR 215. MATERNAL-NEWBORN NURSING. (2) *Prerequisites: NUR 155, 156, 157, 165, 166, BIOL 207. Prerequisites or corequisites: ENG 100.* Includes maternal-newborn nursing concepts utilizing basic human needs, developmental theory, nursing process and evidence-based interventions, to promote and maintain health for selected populations.

NUR 216. MATERNAL-NEWBORN NURSING CLINICAL. (1) *Prerequisites: NUR 155, 156, 157, 165, 166, BIOL 207. Prerequisites or corequisites: NUR 215, ENG 100.* Application of maternal-newborn nursing concepts, principles and skills.

NUR 254. PEDIATRIC NURSING. (2) *Prerequisites: NUR 208, 209, 215, 216. Prerequisites or corequisites: Quantitative Reasoning (QR) course, Arts and Humanities (AH) elective.* Includes pediatric nursing concepts utilizing basic human needs, developmental theory, nursing process and evidence-based interventions to promote and maintain health for selected populations.

NUR 255. MEDICAL SURGICAL NURSING III. (3) *Prerequisites: NUR 208, 209, 215, 216. Prerequisites or corequisites: Quantitative Reasoning (QR) course, Arts and Humanities (AH) Elective.* Expansion on previous medical-surgical concepts utilizing basic human needs, developmental theory, nursing process, and evidence-based interventions to promote and maintain health for selected populations. ***Course Fee***

NUR 257. NURSING SEMINAR & PRACTICUM. (4) *Prerequisites: NUR 208, 209, 215, 216. Prerequisites or corequisites Quantitative Reasoning (QR) course, Arts and Humanities (AH) elective.* Capstone clinical experience with exploration of issues and policies related to the profession of nursing.

BACHELOR OF SCIENCE IN NURSING COURSES

NURS 102. INTRODUCTION TO PROFESSIONAL NURSING. (3) *Prerequisites: ENG 100.* This course is required for students seeking entry into the nursing major. Course includes nursing history, trends, professional roles and responsibilities, educational options, and licensure issues. Taking this course does not guarantee admission into nursing or count towards hours in the nursing major. ***Colonnade E-SB | SB***

NURS 317. SPECIAL TOPICS / INDEPENDENT STUDY. (1-3) A variable credit course which permits the student to select and explore a topic of interest in nursing. With faculty guidance, the student is expected to design, implement and evaluate objectives based on identified learning needs.

NURS 324. PATHOPHYSIOLOGY FOR NURSING. (3) *Prerequisite: Completion of BIOL 131 and BIOL 231 with a minimum grade of "C" and be enrolled with the designation of Pre-Nursing 586P.* Explores the basic pathophysiology of selected disease processes that alter the health of individuals across the lifespan. Focuses on nursing assessment and identification of presenting signs and symptoms and manifestations of the selected disease processes.

NURS 329. CONCEPTS IN PHARMACOLOGY I. (2) *Prerequisites: NURS 333, 334, 335, 336, and 337 or permission of instructor. Corequisites: NURS 341, 342, 343, 344, 413.* Explores introductory principles of pharmacology, drug prototypes used to treat alternations in health for medical, surgical, and mental health patients, and the nurse's role in administering drugs to patients. ***Course Fee***

NURS 333. FUNDAMENTALS OF NURSING. (3) *Prerequisite: Admission to the nursing program. Corequisites: NURS 334, 335, 336, 337.* Fundamental concepts and principles that form the basis for professional nursing practice.

NURS 334. CLINICAL: FUNDAMENTALS OF NURSING. (2) *Prerequisite: Admission to the nursing program. Corequisites: NURS 333, 335, 336, 337.* Application of fundamental concepts and principles, performance of psychomotor skills and techniques that form the basis for professional nursing practice. Students are responsible for arranging their own transportation to assigned sites. (Grading: Pass / Fail) ***Course Fee***

NURS 335. HEALTH ASSESSMENT. (3) *Prerequisite: Admission to the nursing program. Corequisites: NURS 333, 334, 336, 337.* Development of physical assessment skills to determine health status of clients across the life span.

NURS 336. HEALTH ASSESSMENT LAB. (1) *Prerequisite: Admission to the nursing program. Corequisites: NURS 333, 334, 335, 337.* Application of assessment concepts, principles, psychomotor skills, and techniques that form the basis for professional nursing assessment. (Grading: Pass / Fail) ***Course Fee***

NURS 337. HEALTH PROMOTION AND DISEASE PREVENTION. (3) *Prerequisite: Admission to the nursing program. Corequisites: NURS 333, 334, 335, 336.* Explores professional nursing interventions and standards to promote the health of individuals, families, and groups from diverse cultures across the lifespan. Includes discussion of health policies at the local, regional, and national levels.

NURS 341. MEDICAL SURGICAL NURSING I. (3) *Prerequisites: NURS 333, 334, 335, 336 and 337; or permission of instructor. Corequisites: NURS 329, 342, 343, 344, 413.* Basic medical surgical nursing concepts to provide holistic care to diverse individuals and families experiencing alternations in health.

NURS 342. CLINICAL: MEDICAL SURGICAL NURSING I. (3) *Prerequisites: NURS 333, 334, 335, 336, and 337; or permission of instructor. Corequisites: NURS 329, 341, 343, 344, 413.* Application of basic medical surgical nursing concepts to provide holistic care to diverse individuals and families experiencing alternation in health. Students are responsible for arranging own transportation to assigned sites. (Grading: Pass / Fail) ***Course Fee***

NURS 343. MENTAL HEALTH NURSING. (3) *Prerequisites: NURS 333, 334, 335, 336, and 337; or permission of instructor. Corequisites: NURS 329, 341, 342, 344, 413.* Integration of mental health concepts to provide care to clients experiencing alterations in mental health.

NURS 344. CLINICAL MENTAL HEALTH NURSING. (1) *Prerequisites: NURS 333, 334, 335, 336, and 337; or permission of instructor. Corequisites: NURS 329, 341, 342, 343, 413.* Application of mental health concepts to provide nursing care to clients experiencing alterations in mental health. Students are responsible for arranging own transportation to assigned sites. (Grading: Pass / Fail)

NURS 403. NURSING LEADERSHIP, MANAGEMENT, AND PROFESSIONAL ISSUES. (4) *Prerequisites: NURS 413, 429, 432, 433, 444, 445; or permission of instructor. Corequisites: NURS 421, 422, 448, 449, and nursing elective.* Examines issues and trends in professional nursing practice, and theoretical foundations of nursing management and leadership. ***Course Fee***

NURS 413. NURSING RESEARCH AND EVIDENCE-BASED PRACTICE. (3) *Prerequisites: NURS 333, 334, 335, 336, and 337 or permission of instructor. Corequisites: NURS 329, 341, 342, 343, 344.* A study of the research process. Emphasis on critical analysis of selected research in nursing, evaluation of research findings, and application to evidence-based nursing practice.

NURS 421. HIGH ACUITY NURSING. (3) *Prerequisites: NURS 429, 413, 432, 433, 444, 445 or permission of instructor. Corequisites: NURS 403, 422, 448, 449.* Application and integration of advanced medical-surgical nursing concepts to provide holistic nursing care to the high-acuity patient.

NURS 422. SENIOR PRACTICUM. (4) *Prerequisites: NURS 429, 413, 432,433, 444, 445 or permission of instructor.* Corequisites: NURS 403, 421, 448, 449. Application and integration of previous knowledge and skills in the delivery of nursing care to multiple clients in a variety of health care settings. ***Course Fee***

NURS 429. CONCEPTS IN PHARMACOLOGY II. (2) *Prerequisites: NURS 329, 341, 342, 343, 344, 413; or permission of instructor. Corequisites: NURS 432, 433, 444, 445.* Explores advanced principles of pharmacology, drug prototypes used to treat alterations in health for women, infants, children and high acuity patients, and the nurse's role in administering drugs to patients. ***Course Fee***

NURS 432. MEDICAL-SURGICAL NURSING II. (3) *Prerequisites: NURS 329, 341, 342, 343, 344, and 413; or permission of instructor. Corequisites: NURS 429, 433, 444, 445.* Advanced medical-surgical nursing concepts to provide holistic care to diverse individuals, families, and groups experiencing complex alterations in health.

NURS 433. CLINICAL: MEDICAL-SURGICAL NURSING II. (3) *Prerequisites: NURS 329, 341, 342, 343, 344, 413; or permission of instructor. Corequisites: NURS 429, 432, 444, 445.* Application and integration of advanced medical-surgical nursing concepts to provide holistic care to diverse individuals, families, and groups experiencing complex alterations in health. Students are responsible for arranging own transportation to assigned sites. (Grading: Pass / Fail) ***Course Fee***

NURS 444. MATERNAL CHILD NURSING. (4) *Prerequisites: NURS 329, 341, 342, 343, 344, 413; or permission of instructor. Corequisites: NURS 429, 432, 433, and 445.* Application and integration of nursing concepts to provide holistic care to diverse women, infants, and children experiencing alterations in health.

NURS 445. CLINICAL: MATERNAL CHILD NURSING. (2) *Prerequisites: NURS 329, 341, 342, 343, 344, 413; or permission of instructor. Corequisites: NURS 429, 432, 433, 444.* Application and integration of concepts in acute care and community settings to provide holistic nursing care to diverse women, infants, and children experiencing alterations in health. Students are responsible for arranging own transportation to assigned sites. (Grading: Pass / Fail) ***Course Fee***

NURS 448. COMMUNITY HEALTH NURSING. (3) *Prerequisites: NURS 413, 429, 432, 433, 444, and 445; or permission of instructor. Corequisites: NURS 403, 421, 422, 449, and nursing elective.* Theories and concepts from nursing and public health address multidimensional health needs of diverse populations: role of the nurse in healthcare of society.

NURS 449. CLINICAL: COMMUNITY HEALTH NURSING. (2) *Prerequisites: NURS 413, 429, 432, 433, 444, and 445; or permission of instructor. Corequisites: NURS 403, 421, 422, 448, and nursing elective.* Application of public health concepts to address multidimensional health needs of diverse populations: role of the nurse in healthcare of society. Students are responsible for arranging own transportation to assigned sites. ***Course Fee***

NURSING GENERAL ELECTIVE COURSES

NURS 317. SPECIAL TOPICS / INDEPENDENT STUDY. (1-3) A variable credit course which permits the student to select and explore a topic of interest in nursing. With faculty guidance, the student is expected to design, implement and evaluate objectives based on identified learning needs.

NURS 320. WOMEN'S HEALTH ISSUES THROUGH THE LIFE CYCLE. (3) *Prerequisite: Junior standing in nursing or permission of instructor.* Through lecture and class discussion, health issues confronting women throughout the life cycle will be explored.

NURS 338. TRANSCULTURAL NURSING: CONCEPTS AND APPLICATION. (3) *Prerequisites: NURS 324, 333, 334, 335, 336, and 337; or permission of instructor.* Explores the meaning of health and illness for diverse populations. Explore transcultural issues related to organizational readiness, such as leadership, data collection and use, and workforce issues. Additional issues may include the environment of care, rights and responsibilities of the individual and patient, and family and community engagement.

NURS 345. AGRICULTURAL HEALTH NURSING. (3) *Prerequisite: Completion of first semester pre-licensure BSN nursing program or permission of instructor.* Explores issues influencing the health of agricultural workers with emphasis on the role of the nurse in recognizing and preventing agricultural illnesses and injuries along with strategies to promote the health of agricultural workers and their families.

NURS 369. COOPERATIVE EDUCATION IN NURSING. (3) *Prerequisite: Completion of all junior level nursing courses.* Practical experience in a supervised work situation with a cooperating hospital, governmental or other health care agency, emphasizing application of knowledge and skills in selected areas of nursing.

NURS 411. SCHOOL HEALTH NURSING. (3) *Prerequisite: Admission to school nurse certification program or permission of instructor.* Provides theory and skills to assist the registered nurse in fulfilling the multiple roles of the school nurse in K-12 settings. Clinical practicum may be completed in school of employment.

NURS 415. COMPLEMENTARY HEALTH CARE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Selected holistic modes of healing will be explored. Focus will be on history, research findings, theoretical basis and legal implications. ***Colonnade K-SC***

NURS 424. CARDIAC AND HEMODYNAMIC MONITORING. (3) *Prerequisite: Completion of all junior level nursing courses.* Interpretation of basic cardiac dysrhythmias and hemodynamic waveforms, application of principles and techniques, and recommended interventions.

NURS 451. GERONTOLOGICAL NURSING. (3) *Prerequisites: Prelicensure; Admission to the prelicensure program and NURS 300. Post-RN; Admission to the Post-RN program or with permission of instructor.* This course focuses on the nursing care of older adults. Emphasis is placed on theories of aging, pathophysiological processes, and normal variations specific to the aging population, and use of the nursing process to enhance positive outcomes.

NURS 492. FAITH COMMUNITY NURSING. (3) *Prerequisite: Senior level BSN or permission of instructor.* Builds upon practice of community health nursing to develop skills needed to provide nursing care for individuals and groups in faith communities.

RN to BSN COURSES (Registered Nurse to Bachelor of Science Nursing)

NURS 300. CONCEPTS OF DISEASE PROCESSES. (3) Explores the pathophysiological processes influencing the health of clients across the lifespan and the role of the nurse in assessing manifestations of these processes.

NURS 309. HEALTH ASSESSMENT ACROSS THE LIFESPAN. (3) Development of physical assessment skills to determine health status of clients across the life span.

NURS 315. CONCEPTS IN PHARMACOLOGY. (3) Explores principles of pharmacology, drug prototypes used to treat alternations in body systems and the nurse's role in administering drugs to clients across the lifespan.

NURS 321. TRANSCULTURAL NURSING. (3) Focus on developing knowledge of theoretically based transcultural nursing with application of nursing care to clients across the lifespan.

NURS 323. CONCEPTS OF PROFESSIONAL NURSING. (3) Emphasizes concepts that enhance development of advanced professional practice and continued professional development. ***Course Fee***

NURS 339. CARE OF THE HIGH ACUITY PATIENT. (3) Application and integration of advanced medical-surgical concepts. Emphasis on critical thinking and clinical judgment in the care of the high acuity patient.

NURS 340. TEACHING AND HEALTH PROMOTION IN NURSING PRACTICE. (3) Emphasizes client educational assessment, special learning needs, theories, models and nurses' role of teaching and health promotion for clients across the life span.

NURS 400. NURSING LEADERSHIP AND MANAGEMENT. (3) Theoretical foundations of nursing management and leadership emphasizing human resource management, decision making, and motivational skills.

NURS 408. PROFESSIONAL ISSUES. (3) *Prerequisites or corequisites: RN to BSN student: This course must be taken in the final semester of the program.* Explores issues and trends in current professional practice: social, legal, economic, historical, theoretical, political, ethical and research components. ***Course Fee***

NURS 412. INTRODUCTION TO NURSING RESEARCH. (3) A study of the research process with emphasis on critical analysis and evaluation of selected research findings for application to professional nursing practice.

NURS 430. CONCEPTS OF PUBLIC HEALTH NURSING. (4) *Corequisite: NURS 431.* Theories and concepts from public health nursing address the multidimensional health needs of diverse populations and role of the nurse in community-based settings.

NURS 431. APPLICATION OF PUBLIC HEALTH NURSING. (2) *Corequisite: NURS 430.* Application of nursing process with diverse populations across the lifespan in community-based settings. Focus on health promotion. (Grading: Pass / Fail)

OST – OFFICE SYSTEMS TECHNOLOGIES
SCHOOL OF PROFESSIONAL STUDIES

OST 101C. KEYBOARDING. (3) Keyboarding mastery, drill for speed and accuracy, letters and other business forms. ***Course Fee***

OST 217C. TRANSCRIPTION. (3) Designed to develop skills required for transferring machine transcription to printed form.

OST 220C. WORD PROCESSING. (3) Application of word and information processing and communication skills to produce quality business and professional documents. ***Course Fee***

OST 221C. DESKTOP PUBLISHING. (3) Use of software to develop page layout, graphics, charts, illustrations and artwork for creation of newsletters and other professional publications. ***Course Fee***

OST 222C. ADVANCED DESKTOP PUBLISHING. (3) *Prerequisite: OST 221C or permission of program advisor.* Includes technical, design, and typography concepts used in Advanced Desktop Publishing.

OST 271C. OFFICE INTERNSHIP. (3) A parallel of cooperative work assignment in a business office supervised and coordinated by a faculty member. Periodic seminars and outside assignments related to the job are required. (Grading: Pass / Fail)

PCAL – POTTER COLLEGE OF ARTS & LETTERS

PCAL 175. POTTER COLLEGE OF ARTS & LETTERS UNIVERSITY EXPERIENCE. (3) *For first year or transfer students with fewer than 6 hours of credit in declared major.* Transition to the university experience geared towards first year students. Topics include academic skills, critical thinking skills, library education, campus resources, and personal development. Special emphasis on careers and degree programs related to the fields within Potter College of Arts & Letters. Course is restricted to those with majors, including exploratory, within Potter College.

PE– PHYSICAL EDUCATION
SCHOOL OF KINESIOLOGY, RECREATION AND SPORT

PE 100. FUNDAMENTALS OF PHYSICAL ACTIVITY. (3) A study of the basic knowledge, understandings, and values of physical activity. Laboratory experiences are required.

PE 101. FIRST ACTIVITY COURSE. (1) Activity may be selected from aquatics, bowling, dance, golf, karate, racquetball, soccer, volleyball, weight training, aerobic dance, jogging, firearms, self-defense for women, water aerobics and white water kayaking. Students are responsible for transportation to and from off-campus experiences. (course fee in selected sessions)

PE 102 SECOND ACTIVITY COURSE. (1) Activity may be selected from aquatics, bowling, dance, golf, karate, racquetball, soccer, volleyball, weight training, aerobic dance, jogging, firearms, self-defense for women, water aerobics and white water kayaking. Students are responsible for transportation to and from off-campus experiences.

PE 103. THIRD ACTIVITY COURSE. (1) Activity may be selected from aquatics, archery, bowling, dance, golf, karate, racquetball, soccer, volleyball, weight training, aerobic dance, jogging, firearms, self-defense for women, water aerobics and white water kayaking. Students are responsible for transportation to and from off-campus experiences.

PE 104. FOURTH ACTIVITY COURSE. (1) Activity may be selected from aquatics, archery, bowling, dance, golf, karate, racquetball, soccer, volleyball, weight training, aerobic dance, jogging, firearms, self-defense for women, water aerobics and white water kayaking. Students are responsible for transportation to and from off-campus experiences.

PE 111. MOVEMENT THEMES AND CONCEPTS I. (2) An introduction to the basic principles of body management skills. Students are required to perform movement patterns which have gymnastic qualities. The students will conduct peer-teachings. For Physical Education majors only.

PE 121. DANCE AND RHYTHMICAL ACTIVITIES. (2) A study of a variety of dance forms and rhythmical activities suitable for teaching in public schools. Students will learn appropriate teaching techniques and procedures.

PE 122. FOUNDATIONS OF KINESIOLOGY. (3) An introductory study of the historical, philosophical, and scientific foundations of kinesiology; aspects of physical education, exercise science, and sport will be covered. Equivalent to EXS 122.

PE 123. MOVEMENT THEMES AND CONCEPTS II. (2) *Prerequisite: PE 111 or permission of instructor.* Designed to provide majors with biomechanical knowledge and skill acquisition in the area of human movement to include the fundamental skills of catching, throwing, kicking, and striking. The students will conduct peer-teachings. For Physical Education majors only.

PE 211. NET / WALL AND TARGET SPORTS. (2) Pedagogical principles related to teaching the skills, tactics, and strategies of 'Net / wall' and 'Target' game forms.

PE 212. STRIKING / FIELDING AND INVASION SPORTS. (2) Pedagogical principles of teaching 'invasion' and 'striking / fielding' game forms.

PE 220. SKILL PROGRESSION AND ASSESSMENT. (2) Focuses on appropriate learning progressions for instructional tasks to achieve a necessary link between learning outcomes using a skills approach and a tactical awareness of games approach.

PE 221. HEALTH RELATED FITNESS I – AEROBICS. (2) The importance of aerobic exercise for health is presented through a variety of aerobic fitness activities. Students are required to perform and lead activities. For Physical Education majors only.

PE 222. FITNESS / WELLNESS APPLICATIONS. (2) Designed to help physical education majors build a foundation of current knowledge and practice in health related fitness and wellness for application in the education setting.

PE 223. INTRODUCTION TO TEACHING PHYSICAL EDUCATION. (3) Designed to provide majors with the abilities to define, describe, and demonstrate a range of skills to support multiple accreditation standards teaching physical education in a variety of settings.

PE 250. CONDUCT OF INTRAMURAL SPORTS. (2) A critical analysis of intramural sports programs from the standpoint of objectives, age level, and contribution to the general welfare of the participating students. Problems of policy and administration of programs on the elementary, secondary, and college levels are studied.

PE 300. OUTDOOR EDUCATIONAL ACTIVITIES. (2) *Prerequisite: Junior standing.* A study of outdoor activity skills and techniques for assessing community outdoor education resources.

PE 310. KINESIOLOGY. (3) *Prerequisites: BIOL 131. S*tudy of the anatomical, mechanical, and neuromuscular bases of human movement.

PE 311. EXERCISE PHYSIOLOGY. (3) A study of the acute and chronic effects of exercise on the body's physiological function.

PE 312. BASIC ATHLETIC TRAINING. (3) *Prerequisites: PE 311 or EXS 311 and junior status. A* study of the basic principles of athletic training including prevention, evaluation, care, and rehabilitation of athletic injuries. Equivalent to EXS 312.

PE 313. MOTOR DEVELOPMENT. (3) A study of the development of human motor performance.

PE 314. PHYSICAL EDUCATION CURRICULUM. (3) A comprehensive study of guidelines for curriculum development within domain of physical education based on developmentally appropriate content and movement framework.

PE 319. ADAPTED PHYSICAL EDUCATION. (3) Provides knowledge and skills for assessing, interpreting, programming and instructing children and adults with disabilities / special needs in a wide range of physical education programs.

PE 320. METHODS IN EARLY AND MIDDLE CHILDHOOD PHYSICAL EDUCATION. (2) Designed to provide an in-depth study of the pedagogical knowledge and techniques required for an effective elementary physical education program.

PE 321. PHYSICAL EDUCATION CURRICULUM (GRADES K-6). (3) A study of guidelines for curriculum development in elementary physical education. The content of this course is based on developmentally appropriate content and the movement framework.

PE 323. ADAPTIVE PHYSICAL EDUCATION (GRADES K-6). (1) The course provides knowledge and skills for assessing, interpreting, programming, and instructing students with disabilities in K-6 physical education programs.

PE 324. MEASUREMENT AND EVALUATION IN KINESIOLOGY. (3) *Prerequisite: Second semester junior standing in the physical education major.* A study of measurement tools and evaluation procedures used in the fields associated with kinesiology, including physical education, exercise science, and biomechanics.

PE 333. COACHING OF VOLLEYBALL. (2) *Prerequisite: Junior standing.* A study of the fundamentals of coaching offensive and defensive volleyball.

PE 340. FOOTBALL COACHING. (3) *Prerequisite: Junior standing.* Fundamentals of offensive and defensive play, psychology of coaching, schedule making, rules and problems in training, and conditioning in football.

PE 341. BASKETBALL COACHING. (3) *Prerequisite: Junior standing.* Fundamentals of offensive and defensive play, psychology of coaching, schedule making, rules and problems in training, and conditioning in basketball.

PE 342. TRACK AND FIELD COACHING. (3) *Prerequisite: Junior standing.* Fundamentals of coaching, schedule making, rules and problems in training, and conditioning in track and field.

PE 343. BASEBALL COACHING. (3) *Prerequisite: Junior standing.* Fundamentals of coaching, schedule making, rules and problems in training, and conditioning in baseball.

PE 354. PHYSICAL EDUCATION FOR ELEMENTARY SCHOOLS. (3) Designed especially for classroom teachers emphasizing materials and techniques for the physical education program for elementary schools.

PE 355. LABORATORY PROCEDURES IN PHYSICAL EDUCATION ATHLETICS. (2) A study of specific problems in the administration of physical education, recreation, athletics and exercise science.

PE 413. ADAPTIVE PHYSICAL EDUCATION (GRADES 7-12) (1) The course provides knowledge and skills for assessing, interpreting, programming, and instructing students with disabilities in 7-12 physical education programs.

PE 414. PHYSICAL EDUCATION CURRICULUM (GRADES 7-12) (3) Principles and practices of secondary physical education curriculum models to include an in-depth understanding and implementation of KERA academic expectations. Field experience is required.

PE 416. SPECIAL TOPICS IN PHYSICAL EDUCATION. (1-3) *Prerequisite: Permission of instructor.* An in-depth examination of a topic of current interest and relevance to physical education practitioners. Repeatable with a maximum of 4 hours.

PE 420. ADAPTIVE PHYSICAL EDUCATION. (3) *Prerequisite: Junior standing.* Study and field experience in the adaption of the principles and practices of physical education programs for the teaching of handicapped children.

PE 456. INDIVIDUAL ADVANCED STUDIES IN KINESIOLOGY. (3) Specific and detailed analysis of practical problem areas in Kinesiology. Equivalent to EXS 456.

PE 483. TECHNOLOGY APPLICATIONS IN PHYSICAL EDUCATION. (1) Technology-related applications in physical education.

PE 493. PRACTICUM IN COACHING. (1, 2 OR 3) Supervised experience as an assistant coach in an interscholastic athletic program.

PE 497. PRINCIPLES OF COACHING. (3) *Prerequisites: PE 211, 212, 222, 310, 311, 312, SPM 200 or permission of instructor.* Overview of concepts essential in preparation of sport coaches. Includes sport pedagogy, coaching philosophy, motivation, team dynamics, managing and communicating effectively, and improving player performance. Restricted to athletic coaching minors only.

PEMS– PHYSICAL EDUCATION MOVEMENT STUDIES
SCHOOL OF KINESIOLOGY, RECREATION, AND SPORT

PEMS 326. PHYSICAL EDUCATION MOVEMENT STUDIES PRACTICUM I. (2) *Prerequisite: Junior standing or permission of instructor.* Field-based experiences in appropriate early / middle childhood non-school settings emphasizing the abilities to understand, recognize, analyze, and demonstrate a range of physical activity teaching skills. Students are responsible for their own transportation to and from practicum sites.

PEMS 426. PHYSICAL EDUCATION MOVEMENT STUDIES PRACTICUM II. (2) *Prerequisites: PEMS 326 and either senior standing or permission of instructor.* Field-based experiences in appropriate adolescent, young adult / adult non-school settings emphasizing the abilities to understand, recognize, analyze, and demonstrate a range of physical activity teaching skills. Students are responsible for their own transportation to and from practicum sites.

PERF – PERFORMING ARTS
DEPARTMENT OF THEATRE AND DANCE

PERF 101. ACTING. (3) Improvisation, theatre games, and introductory scene and / or monologue work intended to develop fundamental performance and ensemble collaboration skills.

PERF 105. TAIJI. (1) Fundamentals of Yang-style Taijiquan, a traditional Chinese martial art designed to strengthen and coordinate physical motion with breath control and mental / emotional focus. Repeatable three times for credit. (Grading: Pass / Fail)

PERF 110. MAT PILATES. (2) A study of Pilates-based, mat exercises. Holistic exercises use specific breath support and provide physical / mental conditioning that change muscle tone, balance, flexibility and overall fitness and well-being. Repeatable two times for credit.

PERF 120. REHEARSAL AND PRODUCTION. (1) An introductory, experiential learning course providing an overview of theatre and dance production safety procedures and rehearsal etiquette, as well as practical experience in all areas of theatrical production.

PERF 121. REHEARSAL AND PRODUCTION II. (1) Continuation of PERF 120.

PERF 175. UNIVERSITY EXPERIENCE: PERFORMING ARTS. (2) Designed to develop academic skills and library research skills to foster personal development and to provide information about campus resources, thus empowering students to have a successful transition to the higher education experience.

PERF 205. VOICE AND MOVEMENT FOR THE STAGE. (2) A developmental studio course designed to help students enhance the quality, strength, balance, flexibility, and control of their natural vocal / kinesthetic abilities. Repeatable once for credit.

PERF 220. PRODUCTION LAB I. (0.05-1) An experiential learning course designed to provide practical experience in theatrical production. Repeatable for a total of 2 credits.

PERF 221. REHEARSAL AND PRODUCTION IV. (1) Continuation of PERF 220.

PERF 261. PERFORMING ARTS PRACTICUM I. (1) *Prerequisite: Permission of instructor.* Individualized, mentored practical project course in drama, theatre or dance. Repeatable 3 times for a total of 4 credit hours.

PERF 300. TOPICS IN CONTEMPORARY PERFORMANCE STUDIES. (3) Topics-based course focusing on a particular area of contemporary performance theory and practice. May be repeated twice for a total of 9 credit hours.

PERF 320. PRODUCTION LAB II. (0.05-1) *Prerequisite: PERF 220 or permission of instructor.* An experiential learning course designed to provide practical experience in theatrical production, continuation of PERF 220. Repeatable for a total of 2 credits.

PERF 321. PRODUCTION LAB III. (0.05-1) An experiential learning course designed to provide practical experience in theatrical production, continuation of PERF 320. Repeatable for a total of 2 credit hours.

PERF 340. PERFORMANCE LAB I. (0.05-1) *Prerequisite: Permission of Instructor.* An experiential learning course designed to provide practical experience in theatrical performance under actual production conditions. Repeatable for a total of 2 credits.

PERF 341. PERFORMANCE LAB II. (0.05-1) *Prerequisite: PERF 340 or permission of instructor.* An experiential learning course designed to provide practical experience in theatrical performance under actual production conditions. Repeatable for a total of 2 credits.

PERF 350. VOICE AND DICTION FOR THE THEATRE. (1) *Prerequisite: THEA 300 or permission of instructor.* Study and practice of proper vocal production and standard American diction for theatrical applications.

PERF 361. PERFORMING ARTS PRACTICUM II. (2) *Prerequisite: Permission of instructor.* Individualized, mentored practical project course in drama, theatre or dance. Repeatable 3 times for a total of 8 credit hours.

PERF 362. THEATRE IN DIVERSION. (3) *Prerequisites: SOCL 100 and SOCL 302 or THEA 252 and permission of instructor.* Course focusing on techniques for working with at-risk youth. Will provide students with a chance to teach drama skills and develop a performance showcase with teenagers in the juvenile justice system, and to evaluate the effectiveness of these interventions in reducing delinquency. Repeatable one time for a total of 6 credits.

PERF 369. PROFESSIONAL WORK / CAREER EXPERIENCE IN THEATRE. (3) Practical out-of-classroom experience in a supervised work situation with a cooperating business, industry, social or governmental agency. Can be repeated one time with departmental approval.

PERF 400. ADVANCED PERFORMING ARTS STUDIO. (3) *Prerequisite: Theatre and Dance majors only, at least junior standing and permission of instructor.* A team mentored applied performing arts studio offering advanced Theatre and Dance majors an opportunity to work together in small, collaborative teams on the conceptualization and production of fully realized performing arts events. Repeatable twice for a total of 9 credit hours.

PERF 420. PRODUCTION LAB IV (0.05-1) An experiential learning course designed to provide practical experience in theatrical production, continuation of PERF 321. Repeatable for a total of 2 credit hours.

PERF 421. PRODUCTION LAB V. (0.05-1) An experiential learning course designed to provide practical experience in theatrical production, continuation of PERF 420. Repeatable for a total of 2 credits.

PERF 423. PERFORMING ARTS MANAGEMENT. (3) A basic study of the principles of management applied to the fields of theatre operation, production preparation and performance that will affect the direction and growth of the theatre.

PERF 430. PRODUCTION LAB VI. (0.05-1) *Prerequisites: PERF 421 or permission of instructor.* An experiential learning course designed to provide upper level practical experience in targeted areas of theatrical production under actual production conditions. Repeatable for a total of 2 credits.

PERF 431. PRODUCTION LAB VII. (1) *Prerequisite: PERF 430 or permission of instructor.* An experiential learning course designed to provide upper level practical experience in targeted areas of theatrical production under actual production conditions. Repeatable for a total of 2 credits.

PERF 440. PERFORMANCE LAB III. (0.05-1) An experiential learning course designed to provide practical experience in theatrical performance under actual production conditions. Repeatable for a total of 2 credits.

PERF 445. RESEARCH IN THEATRE AND DANCE. (3) Directed Research in Theatre and Dance. Offered as an independent study course with a theatre / dance faculty advisor.

PERF 450. PERFORMING ARTS CAREER SEMINAR. (1) *Prerequisites: Department of Theatre and Dance majors with senior standing, or permission of instructor.* Prepares senior theatre and dance department majors to successfully engage the application / audition process for graduate and / or entry-level career positions in the field of performing arts.

PERF 451. CAREER SEMINAR WORKSHOP. (2) *Corequisite: PERF 450.* A discipline specific workshop designed to accompany PERF 450: Performing Arts Career Seminar.

PERF 461. PERFORMING ARTS PRACTICUM III. (3) *Prerequisite: Permission of instructor.* Individualized, mentored practical project course in drama, theatre or dance. Repeatable 3 times for a total of 12 credit hours.

PETE– PHYSICAL EDUCATION TEACHER EDUCATION
SCHOOL OF KINESIOLOGY, RECREATION, AND SPORT

PETE 322. FIELD EXPERIENCE IN PHYSICAL EDUCATION I. (2) Field-based experience in elementary school physical education emphasizing the abilities to understand, recognize, analyze, and demonstrate a range of teaching skills in an elementary school context.

PETE 415. FIELD EXPERIENCE IN PHYSICAL EDUCATION II. (2) *Prerequisite: Students in the PETE concentration must meet all requirements for admission into the teacher education program and be admitted into teacher education prior to registering for PETE 415.* Field-based experience in secondary physical education emphasizing the abilities to understand, recognize, analyze, and demonstrate a range of teaching skills in a secondary school context.

PH– PUBLIC HEALTH
DEPARTMENT OF PUBLIC HEALTH

PH 100. PERSONAL HEALTH. (3) Examines behaviors and environmental conditions that enhance or hinder an individual's health status. In addition to exploring social and environmental factors, students are encouraged to think critically about behavioral choices that impact one's health. Students assess their individual behavior in the light of current scientific knowledge concerning mental health; drugs, alcohol and tobacco; health care; selection of health products; prevention of disease; nutrition; exercise, and stress management. ***Colonnade E-SB | SB***

PH 165. DRUG ABUSE. (3) This course offers an opportunity for the student to explore the drug culture, and both healthful and harmful use of drugs. The scope will include marijuana, hallucinogens, narcotics, stimulants, depressants and volatile chemicals. Pharmacological, psychological and sociological aspects of drug abuse will be studied through individual research, group discussion, lectures and field trips when practical.

PH 261. FOUNDATIONS OF HEALTH EDUCATION. (3) *Prerequisite: PH 100.* An introduction to the discipline of health education, including history, theoretical basis, comparison and contrast of work settings, ethics, professional organizations, and perspectives on the future.

PH 280. INTRODUCTION TO ENVIRONMENTAL SCIENCE. (3) An introductory course devoted to the study of environmental issues. A general understanding of application of science to solution of contemporary environmental problems. Equivalent to ENV 280.

PH 365. HUMAN SEXUALITY. (3) *Prerequisite: 21 hours of Foundations and Explorations courses, or junior status.* Examines sociological, physiological, and psychological aspects of human sexuality in relation to family life, courtship, marriage, reproduction, education, and aging. Includes information on sexual assault, sexually transmitted infections (STIs), and HIV / AIDS. ***Colonnade K-SC***

PH 381. COMMUNITY HEALTH. (3) *Prerequisite: PH 100 or PH 261 or 21 hours of Foundations and Explorations courses or permission of instructor.* Study of international, national, state and local health problems, and the governmental, voluntary and private sectors of the health care system. Emphasis is placed upon preventative strategies appropriate for contemporary public health concerns.

PH 382. PEER HEALTH EDUCATION. (3) *Prerequisite: Instructor permission required. Admission based upon academic background and interview.* Course focuses on health concerns specific to college students with a strong emphasis on alcohol and other drug issues, and methods of addressing these issues through peer health education.

PH 383. BIOSTATISTICS IN THE HEALTH SCIENCES. (3) *Prerequisite: MATH 109 or MATH 115 or higher.* Introduction to statistical methods, scientific structure of study design, hypothesis formation and verification and study classification. Includes descriptive statistics, data presentation, data sources, questionnaire construction, interviewing techniques and use of computer technology.

PH 384. INTRODUCTION TO EPIDEMIOLOGY. (3) *Prerequisite: PH 383.* Explores the distribution and determinants of health and diseases, illnesses, injuries, disability, and death in populations. Examines the application of epidemiologic procedures to the understanding of the occurrence and control of conditions such as infectious and chronic diseases, mental disorders, community and environmental health hazards, accidents, and geriatric problems.

PH 385. ENVIRONMENTAL HEALTH. (3) *Prerequisites: 3 hours of CHEM and 3 hours of BIOL.* This course examines the environment and its relationship to health status. Areas of emphasis include food protection, air, water and land pollution, hazardous wastes, and noise and radiation hazards.

PH 390. WELLNESS AND FITNESS ASSESSMENT. (3) *Prerequisites: BIOL 131, HMD 211, CPR certification and junior standing.* Techniques of wellness and fitness assessment, evaluations of various populations including identification of individual health risk factors, and personal goals for cardiovascular health and fitness.

PH 402. WORKSITE HEALTH PROMOTION. (3) *Prerequisite: Sophomore standing or instructor permission.* Provides specific concepts and skills needed in worksite health promotion using comprehensive health promotion and education techniques. Also discusses policy issues, program planning and special population interactions that are unique to the worksite setting.

PH 410. GLOBAL PERSPECTIVES ON POPULATION HEALTH. (3) *Prerequisite: Complete 21 hours of Foundations & Explorations coursework or have junior status.* Population health focuses on the health and well-being of entire populations. Populations may be geographically defined, such as neighborhoods, states, or countries, or may be based on groups of individuals who share common characteristics such as age, gender, race-ethnicity, disease status, employee group membership, or socioeconomic status. With roots in epidemiology, public heath, and demography, a key component of population health is the focus on the social determinants of health and "upstream" collaborative interventions to improve population health and variance, identify and reduce health disparities, and reduce healthcare costs. ***Colonnade K-LG***

PH 443. HEALTH AND AGING. (3) *Prerequisites: Sophomore standing or permission of instructor.* Examines the multiple factors affecting health of older adults. The course will discuss normal changes in aging and how to promote health of older adults. Students are required to have hands-on field experience. Students are responsible for their own off-campus transportation.

PH 444. DEATH, DYING AND BEREAVEMENT. (3) *Prerequisites: 3 hours of social or behavioral science, junior standing.* A study of the universal experience of dying and death, within societal, cultural, philosophical and spiritual contexts, designed to help people make sense of their mortality and the development of coping skills to assist with dealing with the death of loved ones.

PH 447. HUMAN VALUES AND THE HEALTH SCIENCES. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* An analysis of the difficult ethical, legal, and social dilemmas confronting the health care delivery system, patients, medical practitioners and other health care professionals in contemporary American society. ***Colonnade K-SC***

PH 450. RURAL HEALTH AND SAFETY. (3) Students will explore a variety of health and safety issues unique to rural populations. The interdisciplinary team concept will be used throughout the course to foster collaboration that facilitates sharing of the expertise of the students and faculty. One Saturday meeting will be required for a team building activity.

PH 456. INDEPENDENT STUDY IN HEALTH AND SAFETY. (1-3) *Prerequisites: Junior standing and permission of instructor.* Specific and detailed analysis of practical problem areas in health and safety. Designed specifically for independent study.

PH 461. COMPREHENSIVE SCHOOL HEALTH PROGRAM. (3) *Prerequisite: PH 381.* Examines the instructional component of a comprehensive school health program. Discusses the role of administrators, teachers, counselors, health service personnel and policy issues in coordinating and evaluating a comprehensive school health program.

PH 462. FOLKLORE AND MEDICINE. (3) This course examines the role of traditional culture in shaping attitudes and behavior related to sickness, health, and healing. Institutional, alternative, and informal medical settings are discussed. Equivalent to FLK 462.

PH 463. CONSUMER HEALTH. (3) *Prerequisites: PH 261 and junior standing.* This course examines the benefits and/or hazards associated with health related products, services and information presently available to the consumer. The methods and techniques of health frauds are analyzed. Emphasis is placed on the development of individual criteria for the potential selection and purchase of health products and services. Field trips may be required.

PH 464. WOMEN'S HEALTH. (3) *Prerequisites: Junior standing and permission of instructor.* An analysis of the major health problems of contemporary women, with a special emphasis on health promotion, disease prevention, and consumer health concerns.

H 465. HEALTH AND SAFETY IN THE ELEMENTARY SCHOOL. (3) *Prerequisite: PH 100 or a similar course.* An exploration of the nature and purpose of school health and safety in the elementary school, including curriculum development, instructional content areas, appraising students health and evaluation.

PH 467. DRUG ABUSE EDUCATION. (3) *Prerequisite: Sophomore standing or permission of instructor.* A drug abuse education and prevention course designed to provide current and documented information about abused substances. Includes study of the development, implementation and evaluation of drug prevention programs in the home, school, community and workplace.

PH 468. SEXUALITY EDUCATION. (3) *Prerequisites: Sophomore standing or permission of instructor.* A critical review of programs designed to promote sexuality education in community and school settings. Forces that impact on the adoption of various curricula and the development of new curricula are examined. Students are taught to utilize scientific and cultural considerations in preparing and adopting curricula for different populations.

PH 469. CRITICAL ISSUES IN HEALTH AND SAFETY. (3) *Prerequisites: PH 261 and PH 381.* Analysis of current health problems from both school and community viewpoints. The purpose of the course is to permit in-depth exploration, through research and discussion, of specific local, national and worldwide health and safety problems.

PH 472. ILLICIT DRUG POLICY IN THE US. (3) *Prerequisite: PH 100 or PH 165 or permission of instructor.* Examination of the illicit drug policy in the United States and its intended and unintended outcomes. Topics include the history of illicit drug policy, current trends in drug policy enforcement, drug use and abuse, and proposed alternative policies.

PH 483. ADMINISTRATION OF HEALTH PROGRAMS. (3) *Prerequisite: PH 384.* Introductory study of the basic principles, theories and practices of public health administration. Emphasis will be placed on the development and organization of health programs from voluntary and official agencies to meet the health needs of the community.

PH 484. COMMUNITY ORGANIZATION FOR HEALTH EDUCATION. (3) *Prerequisite: Junior standing and permission of instructor.* Examines the role of the health educator in solving community health problems. Emphasis is placed on appropriate methods and techniques of communication, processes by which a community identifies its needs and the importance of cultural and social factors in community organization and community development. Principles of community organization and planning as a process will be stressed as well as the importance of public health policy.

PH 485. METHODS IN COMMUNITY HEALTH EDUCATION. (3) *Prerequisite: PH 483.* The roles and functions of the community health educator in planning, implementing, and evaluating health education programs.

PH 490. INTERNSHIP. (3-6) *Prerequisite: Permission of instructor.* Supervised, 400-hour field experience planned with various agencies, organizations, facilities, industries, and businesses with health related missions or programs, and approved by the Department of Public Health. Off-campus travel required, and students are responsible for their own transportation.

PHIL – PHILOSOPHY
DEPARTMENT OF PHILOSOPHY AND RELIGION

PHIL 101. ENDURING QUESTIONS: TRUTH AND RELATIVISM. (3) The study of central positions and arguments concerning the nature and character of Truth: Is there such a thing as Truth? What is real? If there is Truth and reality, how can we know them? ***Colonnade E-AH | AH***

PHIL 102. ENDURING QUESTIONS: THE GOOD AND THE BEAUTIFUL. (3) The study of fundamental questions in moral theory and aesthetics: What is good? What is beauty? On what grounds do we base moral and aesthetic judgments? How are the good and the beautiful related, and how are they different? ***Colonnade E-AH | AH***

PHIL 103. ENDURING QUESTIONS: THE COMMITTED LIFE. (3) The philosophical study of individual and collective commitment to ideals and values in pluralistic society. ***Colonnade E-AH | AH***

PHIL 202. RACIAL JUSTICE. (3) An examination of (1) the major perspective that came together to form the civil rights movement of the 1950's and 1960's; (2) the accomplishments and failures of that movement; and (3) the issues of racial justice that remain today. Equivalent to RELS 202.

PHIL 207. PHILOSOPHY AND POPULAR CULTURE. (3) An examination of the multiple ways that philosophical inquiry can further the student of popular culture. This will include philosophical accounts of the nature and meaning of popular culture as well as the use of various philosophical approaches to interpret specific elements of popular culture such as film, television, music, and sports.

PHIL 208. PUBLIC PHILOSOPHY: REASON, ACTION, VIOLENCE. (3) An exploration of how public spaces (squares, malls, streets, parks, and sidewalks) shape citizenship by enabling and disabling public discourse and political participation. Students will investigate an devaluate demands for justice and fairness that have been made in public spaces.

PHIL 211 WHY ARE BAD PEOPLE BAD? (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. A study of enduring questions about the darker side of human nature—such as whether people are born bad and whether people are responsible for vice and evil—providing a philosophical analysis of a wide range of examples from multiple disciplinary perspectives. ***Colonnade K-SC***

PHIL 212. PHILOSOPHY AND GENDER THEORY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Introductory study of philosophical works as they relate to gender theory, queer theory, and feminism. ***Colonnade K-SC***

PHIL 214. LOGIC, ARGUMENT, & PRACTICAL REASONING. (3) Focuses on areas of logic that provide a basis for philosophical reasoning and analysis, including types of arguments, logical properties, fallacies, Venn diagrams, truth tables, and categorical, sentential, and quantified logics.

PHIL 215. SYMBOLIC LOGIC. (3) An introductory course in logic which presents the different uses of language and teaches students (1) to evaluate the logical status of statements and the consistency and validity of arguments using both natural and formal language techniques, and (2) to identify informal fallacies. Typically, a student who earns an "A" or "B" in PHIL215 may go on to take PHIL 415, with the permission of the instructor of PHIL 415. ***Colonnade F-QR | QR***

PHIL 299. PHILOSOPHICAL WRITING WORKSHOP. (1) *Prerequisite: One philosophy course or concurrent registration in a philosophy course.* A workshop designed to help students develop their writing skills and forms of argumentation in a philosophical context.

PHIL 305. AESTHETICS. (3) A survey of outstanding philosophies of art and a study of the principles of art criticism.

PHIL 315. PHILOSOPHY OF RELIGION. (3) *Prerequisite: One course in philosophy or religious studies.* A systematic study of such problems as the nature and existence of God, the relation of faith and reason, human nature and destiny, immortality, evil, and the problem of religious language. Equivalent to RELS 315.

PHIL 320. ETHICS. (3) *Prerequisite: One course in philosophy or sophomore status.* An introduction to ethical issues using classical and contemporary texts. Among issues that may be treated are justice, rights, responsibilities, punishment, and obligations regarding the environment.

PHIL 322. BIOMEDICAL ETHICS. (3) A philosophical analysis of ethical problems in biomedical practice and research, including patients' rights, professional responsibilities, death and dying, health care allocation, and reproductive technologies.

PHIL 323. SOCIAL ETHICS. (3) *Prerequisite: One course in Religious Studies or Philosophy or junior status.* Perspectives and issues involved in the public pursuit of justice in a religiously and philosophically diverse society. One short field trip. Equivalent to RELS 323.

PHIL 324. WAR AND PEACE. (3) *Prerequisite: One course in philosophy at the 100 or 200 level; or permission of instructor.* A philosophical examination of classical and contemporary arguments concerning the use of organized violence to settle human disputes. Topics include just war theories, pacifism and nonviolence, deterrence, militarism, and peacemaking.

PHIL 330. PHILOSOPHY OF SCIENCE. (3) *Prerequisite: One course in philosophy or permission of instructor.* Critical examination of the concepts, presuppositions, and methods of the natural and social sciences. Fundamental concepts such as space, time, matter, and causality are examined.

PHIL 331. ANALYTIC PHILOSOPHY. (3) *Prerequisite: One course in philosophy or permission of instructor.* A study in Anglo-American / Analytic philosophy in the 20th century focusing on the works of representative figures like Carnap, Frege, Moore, Russell, Quine, and Wittgenstein.

PHIL 332. PHILOSOPHY OF MIND: MINDS AND MACHINES. (3) *Prerequisite: One philosophy course or consent of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* A study of the nature of mind, cognitive states, and consciousness. Topics may include the nature of the mental system, mind-brain identity, computer consciousness, and visual system's role in decision-making and intentionality. ***Colonnade K-SY***

PHIL 333. MARX AND CRITICAL THEORY. (3) *Prerequisite: One course in philosophy or permission of instructor.* A study of 19th and 20th century critical social thought focusing on Marxism and the Frankfurt School.

PHIL 334. PHILOSOPHY OF LANGUAGE. (3) *Prerequisite: One course in philosophy or permission of instructor.* Examines major topics in the philosophy of language, including the language-world-thought relationship, linguistic meaning, linguistic structure, and communication.

PHIL 341. PLATO AND ARISTOTLE. (3) *Prerequisite: One course in philosophy or permission of instructor.* The study of primary texts to assess and compare the contributions of Plato and Aristotle and related figures to issues in metaphysics, epistemology, ethics, and political philosophy.

PHIL 342. SKEPTICS, STOICS, AND EPICUREANS. (3) *Prerequisite: One course in philosophy or permission of instructor.* A selective study to assess and compare the views of Stoics, Skeptics, Epicureans, and others on issues that include reality, knowledge, natural law, well-being, and soul.

PHIL 343. MEDIEVAL PHILOSOPHY. (3) *Prerequisite: One course in philosophy or permission of instructor.* A selective study to assess and compare the contributions of medieval thinkers such as Peter Abelard, Roger Bacon, and William of Ockman to issues including language, knowledge and science, reality and God, virtues and conscience, well-being, and political order.

PHIL 344. EARLY MODERN MORAL PHILOSOPHY. (3) *Prerequisite: One course in philosophy or permission of instructor.* A selective study of moral problems and movements in early modern European philosophy between the Reformation and the late eighteenth century.

PHIL 345. DESCARTES AND HUME. (3) *Prerequisite: One course in philosophy or permission of instructor.* A comparative treatment of the major works and doctrines of Descartes and Hume and their importance for subsequent philosophical developments.

PHIL 346. KANT AND IDEALISM. (3) *Prerequisite: One course in philosophy or permission of instructor.* A focused study of the philosophy of Kant and reaction to that philosophy by such figures as Hegel, Schelling, Fichte, or Kierkegaard.

PHIL 347. LEIBNIZ AND LOCKE. (3) *Prerequisite: One course in philosophy or permission of instructor.* A comparative treatment of the major works and doctrines of Leibniz and Locke and their importance for subsequent philosophical developments.

PHIL 348. 20th CENTURY PHILOSOPHY. (3) *Prerequisite: One course in philosophy or permission of instructor.* A study of one or more of the philosophical movements of the 20th century.

PHIL 350. ETHICAL THEORY. (3*) Prerequisite: One course in philosophy or permission of instructor.* A study of the major normative systems in the history of ethics, and of selected problems in contemporary metaethics, including moral reasoning, skepticism, rights, and theories of justice.

PHIL 401. READINGS IN PHILOSOPHY. (3) *Prerequisite: One course in philosophy or permission of instructor.* An intensive study of selected philosophic classics or readings in a selected area of philosophy. May be repeated for different topics.

PHIL 404. METAPHYSICS AND EPISTEMOLOGY. (3) *Prerequisites: Junior status, PHIL 215, and one course in philosophy at the 100 or 200 level; or permission of instructor.* Selective study of topics about reality and knowledge, such as existence, appearance and reality, causality, persons, certainty, theory and evidence, explanation and understanding and justification.

PHIL 406. EXISTENTIALSIM. (3) *Prerequisite: One course in philosophy or permission of instructor.* A study of central thinkers in the existential movement and its representative themes of individualism, subjectivity, passion, freedom, absurdity, and responsibility.

PHIL 415. ADVANCED LOGIC. (3) *Prerequisite: PHIL 215 or equivalent.* Advanced topics in First Order Logic and topics in the Philosophy of Logic.

PHIL 426. PHILOSOPHY AND OLD AGE. (3) *Prerequisite: Junior level or above or permission of instructor.* Examination of philosophical themes bearing on old age, such as: meaning, memory, selfhood, autonomy, immortality, euthanasia, filial obligation, intergenerational justice, authority, dignity, virtue / vice and beauty.

PHIL 427. PHILOSOPHY OF LAW. (3) *Prerequisite: One philosophy course or permission of instructor.* A study of theories on the nature and origin of law, basic legal concepts (obligation, right, equality, liberty, justice), legal moralism, church and state, civil disobedience, and other topics.

PHIL 432. PHILOSOPHY AND EARLY MODERN SCIENCE. (3) *Prerequisite: One philosophy course or instructor permission.* A study of the links between natural philosophy, jurisprudence, and the rise of experimentalism in the seventeenth century.

PHIL 433. HISTORY OF PHILOSOPHY OF SCIENCE. (3) *Prerequisite: One philosophy course or instructor permission.* A treatment of the philosophical analyses of problems in science, such as Realism, Instrumentalism, Hypothetico-Deductivism, Models, Empiricism, Experimental Design, and Scientific change or Progress, studies in historical context.

PHIL 440. READINGS IN ANCIENT OR MEDIEVAL PHILSOPHY. (3) *Prerequisite: One philosophy course or instructor permission.* Advanced study of a major thinker or movement in ancient or medieval philosophy.

PHIL 450. READINGS IN MODERN OR CONTEMPORARY PHILOSOPHY. (3) *Prerequisite: One philosophy course or instructor permission.* Advanced study of a major thinker or movement in modern or contemporary philosophy.

PHIL 496. SENIOR SEMINAR. (3) *Prerequisites: Senior standing and major in philosophy or consent of instructor.* A capstone course designed for senior philosophy majors. Students will complete projects that demonstrate their research, writing, and analytical skills. Content areas of the seminar will vary by semester and instructor.

PHIL 499. RESEARCH IN PHILOSOPHY. (3) *Prerequisite: Open only to philosophy majors with at least a 3.0 grade point average in their senior year.* Directed study and research in one area of philosophy. The research will culminate in an acceptable thesis.

PHYS– PHYSICS
DEPARTMENT OF PHYSICS AND ASTRONOMY

COLONNADE COURSES

These courses do not count toward physics major credit.

PHYS 100. ENERGY. (3) A one-semester survey of the concepts of energy applicable to the understanding of energy in our environment. Topics covered are the nature of energy, sources, transmission, consumption, energy and the environment, and prospects for the future. Experiments will be conducted as part of the classroom work. ***Colonnade E-NS | NS***

PHYS 101. CONCEPTS OF MOTION. (3) A one-semester introduction to motion and matter. Topics include the analysis of motion, Newton's Laws of motion, work, energy, the structure and properties of solids, liquids and gases, wave motion and sound. Laboratory experiments are an integral part of this course. ***Colonnade E-NS (SL) | NS | SL***

PHYS 103. LIGHT, COLOR AND VISION. (3) A descriptive account of the nature and properties of light, color and the process of seeing including descriptions of some important optical instruments, such as the eye, the camera and the telescope. Laboratory experiments are an integral part of the course. ***Course Fee | Colonnade E-NS (SL) | NS | SL***

PHYS 130. ACOUSTICS OF MUSIC AND SPEECH. (3) The fundamental laws of mechanics and wave motion are studied with particular emphasis being placed upon their application to the production and control of music and speech. Laboratory experiments and field trips are an integral part of the course. Does not count toward credit for the physics major or minor. ***Colonnade E-NS (SL) | NS | SL***

SCIENCE AND MATH MAJORS AND MINORS

PHYS 180. INTRODUCTORY MODERN PHYSICS. (3) *Prerequisite: MATH 117 or 118. Corequisite: PHYS 181.* A survey of the physics revolution responsible for laptop computers, fiber optics, and nuclear power. Follows the change in physical theory from the 1870's through the 1920's, from geometrical optics and thermodynamics through the theories of relativity and the basic ideas behind quantum mechanics. ***Colonnade E-NS | NS***

PHYS 181. INTRODUCTORY MODERN PHYSICS LABORATORY. (1) *Prerequisite: MATH 117 or 118. Corequisite: PHYS 180.* Required for students enrolled in PHYS 180. Laboratory experience focusing on applications of optics, thermodynamics, the structure and behavior of atoms, wavelike properties of particles, and quantization of light, charge and energy. ***Course Fee | Colonnade E-SL | SL***

PHYS 201. COLLEGE PHYSICS I. (4) *Prerequisites: High School algebra, geometry and right triangle trigonometry.* An introductory course for students majoring in the applied sciences, emphasizing the application of basic physics principles through problem solving. Topics covered include mechanics, heat and thermodynamics, properties of matter and waves. Includes both lecture and laboratory components. (No calculus is used). ***Colonnade E-NS (SL) | NS | SL***

PHYS 202. COLLEGE PHYSICS II. (4) *Prerequisite: PHYS 201. Corequisite: PHYS 208 (Course and laboratory must be taken together or dropped together.)* A continuation of PHYS 201. The following topics are covered: electrostatics, electric field strength, electric potential difference, resistance, capacitance, DC circuits, magnetism, electromagnetic induction, electromechanical devices, simple AC circuits, reflection, refraction, geometrical optics, physical optics, interference and diffraction. Includes both lecture and laboratory components. (No calculus is used).

PHYS 215. SEMINAR FOR PHYSICS LEARNING ASSISTANTS. (1) *Prerequisites: A college level physics course and acceptance to serve as a learning assistant or permission of instructor.* Introduces students to basic theory and practical skills for assisting instructors as learning assistants in active-engagement physics courses.

PHYS 227. ENGINEERING STATICS. (3) *Corequisite: MATH 237.* Study of external forces acting on particles and rigid bodies in equilibrium including force systems in two and three dimensions, distributed loading, applications to trusses, beams, frames and cables using vector algebra. Also covers centroids and moments of inertia. Equivalent to MET 227.

PHYS 231. INTRODUCTION TO PHYSICS AND BIOPHYSICS I. (3) *Prerequisites: High school algebra and geometry. Corequisite: PHYS 232 (Course and laboratory must be taken together or dropped together.)* The first half of a basic course for students of the life sciences, covering the topics of mechanics, heat and thermodynamics, properties of matter, waves and sound. Emphasis is on an understanding of the physical principles operative in biological systems and on the application of physical methods in biology and medicine.

PHYS 232. LABORATORY FOR PHYSICS AND BIOPHYSICS I. (1) *Corequisite: PHYS 231.* Required for students enrolled in 231. Students perform physics experiments on mechanics, fluids, sound, heat and thermodynamics. ***Course Fee***

PHYS 233. LABORATORY FOR PHYSICS AND BIOPHYSICS II. (1) *Corequisite: PHYS 332.* Required for students enrolled in 332. Students perform physics experiments in electricity, magnetism and optics. ***Course Fee***

PHYS 255. UNIVERSITY PHYSICS I. (4) *Prerequisite: MATH 136 with a grade of "C" or better. Corequisites: MATH 137 and PHYS 256.* This is the first half of a year-long course in calculus-based physics suggested for students in the physical sciences and mathematics. Definitions, concepts, and problem solving will be emphasized. Topics include kinematics, dynamics, energy, conservation laws, rotation, harmonic motion, mechanical waves and thermodynamics. ***Colonnade E-NS | NS***

PHYS 256. UNIVERSITY PHYSICS I LAB. (1) *Corequisite: PHYS 255.* Required for students enrolled in PHYS 255. Students perform physics experiments in mechanics and thermodynamics which stress the fundamental definitions and laws developed in the lecture course. Students gain experience in computerized data acquisition and data analysis using modern techniques and equipment. ***Course Fee | Colonnade E-SL | SL***

PHYS 265. UNIVERSITY PHYSICS II. (4) Prerequisites: *PHYS 255 and MATH 137, both with grades of "C" or better. Corequisite: PHYS 266.* This is the second half of a year-long course in calculus-based physics suggested for students in the physical sciences and mathematics. Definitions, concepts, and problem solving will be emphasized. Topics include electricity and magnetism, (electrical and magnetic fields, forces, energy, potential, charged particle motion, induction, and circuits), sound waves and optics.

PHYS 266. UNIVERSITY PHYSICS II LABORATORY. (1) *Prerequisites: PHYS 255 and MATH 137. Corequisite: PHYS 265*. Required for students enrolled in PHYS 265. Students perform physics experiments in electricity and magnetism, waves and optics which stress the fundamental definitions and laws developed in the lecture course. Students gain experience in computerized data acquisition and data analysis using modern techniques and equipment. ***Course Fee***

PHYS 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) *Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or Ogden College faculty member recommendation.* To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, topic, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count towards any major or minor.) Equivalent to BIOL 295, CHEM 295, CS 295, ENGR 295, GEOL 295, and MATH 295.

PHYS 299. RESEARCH EXPERIENCE. (1-3) Prerequisites: *MATH 117 or equivalent; and PHYS 180 or PHYS 201 or PHYS 231 or PHYS 255; and permission of the instructor.* Individual or group research project carried out under direct faculty supervision. A faculty approved public presentation is required. Course may be repeated for a maximum of 3 hours.

PHYS 332. INTRODUCTION TO PHYSICS AND BIOPHYSICS II. (3) *Prerequisite: PHYS 231. Corequisite: PHYS 233 (Course and laboratory must be taken together or dropped together.)* The second half of a basic course for students of the life sciences, covering the topics of electricity, magnetism, light optics, atomic and nuclear physics. Emphasis is on an understanding of the physical principles operative in biological systems and on the application of physical methods in biology and medicine.

EDUCATION MAJORS AND MINORS

PHYS 105. CONCEPTS OF THE PHYSICAL WORLD. (3) A one-semester introduction to the concepts of physics for students planning to teach in elementary and middle schools. Topics include structure and properties of matter, mechanics, electricity, magnetism, heat, light and sound. Laboratory experiments are an integral part of this course.

PHYS 312. LABORATORY PRACTICE AND PROCEDURE. (1) A course to assist prospective high school physics teachers in being able to plan, design, equip and teach a high school physics laboratory.

PHYS 325. CURRENT PROGRAMS IN PHYSICS. (3) *Prerequisite: One year of college physics.* A systematic study of several current systems of organizing and presenting introductory physics. The prospective teacher will become familiar with various program materials, and will explore the history and philosophy of physics. The student will compare these systems and consider adapting them to different classroom situations.

PHYS 410. PHYSICS FOR TEACHERS. (3) *Prerequisite: PHYS 201 or PHYS 231 or PHYS 255.* A broad study, including laboratory experiences, of the areas of physics relevant to science teaching in grades K-12. For pre-service or in-service teachers who have a minimal physics background. Instruction will be differentiated according to student needs. Applicable toward a major or minor in physics only for those students obtaining teacher certification.

PHYSICS MAJORS AND MINORS

PHYS 301. ELECTRICAL MEASUREMENTS LABORATORY. (1) *Prerequisites: PHYS 265 and 266.* Laboratory experiments in fundamental techniques of electrical measurements. ***Course Fee***

PHYS 302. ATOMIC PHYSICS LABORATORY. (1) *Prerequisite: PHYS 321.* Fundamental experiments of historical importance in modern physics.

PHYS 303. ELECTRONICS LABORATORY. (1) *Corequisite: PHYS 340.* Required for students enrolled in PHYS 340. Laboratory experiments in basic techniques of analog and digital electronics.

PHYS 316. COMPUTATIONAL PHYSICS. (3) *Prerequisites: PHYS 321.* Use of computers to solve physics problems, model physical systems, and analyze data. Topics include: simulating realistic motion, data analysis, Fourier transform, solutions to Laplace's equation, and Monte Carlo methods.

PHYS 318. DATA ACQUISITION USING LABVIEW. (3) *Prerequisites: PHYS 265 or permission of the instructor.* A study of computer-assisted measurement and automation techniques. Students receive hands-on experience in measuring and controlling physical phenomena through laboratory exercises and projects. Recognized as a LabVIEW Academy course by National Instruments. Offers students the opportunity to become certified LabVIEW associate developers. ***Course Fee***

PHYS 321. INTRODUCTORY MODERN PHYSICS II. (3) *Prerequisites: PHYS 180 and PHYS 265. Prerequisite or corequisite: CHEM 120 and MATH 237*. Study of the breakdown of classical physics at velocities close to the speed of light and on atomic scales. Topics include relativistic kinematics and dynamics, wave/particle duality, the Schrodinger equation, square wells, harmonic oscillators, the hydrogen atom, many-electron atoms, statistical distribution laws, superconductivity and superconductivity, the band theory of solids, nuclear structure and reactions, and other selected topics of modern physics.

PHYS 330. THERMODYNAMICS. (3) *Prerequisites: PHYS 321, MATH 237 and 331.* A study of thermodynamic systems, equations of state, entropy, Maxwell-Bolzmann and quantum statistics.

PHYS 340. CIRCUIT THEORY AND ELECTRONICS. (3) *Prerequisites: PHYS 265, 301; MATH 137. Corequisite: PHYS 303.* This course is suitable for all science majors who will use electronic devices in their work. It is a study of circuit analysis, active devices (such as diodes, transistors, silicon controlled rectifiers) and integrated circuits. Particular emphasis is placed on design and use of simple power supplies, transistor circuits, and operational amplifier circuits.

PHYS 350. CLASSICAL MECHANICS I. (3) *Prerequisites: PHYS 265. Prerequisites or corequisites: MATH 331 and MATH 237.* A study of classical mechanics including equations of motion, coordinate systems, the simple harmonic oscillator, damping forces, vector algebra, momentum and energy theorems.

PHYS 389. PRACTICUM IN PHYSICS AND ASTRONOMY. (3-6) Practical experience in a supervised work situation. Application of basic knowledge and skills from the student's major discipline or area of career interest, with opportunities in learning the social, psychological, cultural and communication aspects of work. The student is placed under the direction of a supervisor of a cooperating business, industry, agency or institution. Includes specific, learning objectives and evaluation of the student using one or more of the following formats: (1) written reports, (2) seminar presentations, or (3) tests over selected readings. May be repeated with departmental approval.

PHYS 398. JUNIOR SEMINAR. (0.5) *Prerequisites: PHYS 321 and PHYS 350.* Weekly seminar series in current topics in physics. Each student will also prepare for and take a comprehensive examination in physics.

PHYS 399. RESEARCH PROBLEMS IN PHYSICS AND ASTRONOMY. (1-3) *Prerequisite: PHYS 321.* Assigned reading or research for qualified undergraduates. May be repeated with change of content, but only three hours will count toward a major.

PHYS 404. OPTICS LABORATORY. (1) *Corequisite: PHYS 441.* Required laboratory for students enrolled in PHYS 441. Fundamental laboratory experiments in geometrical and physical optics.

PHYS 406. LAB / SOLID STATE. (1) *Corequisite: PHYS 460*. Fundamental lab experiments in solid state physics.

PHYS 407. NUCLEAR PHYSICS LAB. (1) *Corequisite: PHYS 470.* Fundamental lab experiments in nuclear physics.

PHYS 425. PHYSICS OF MATERIALS SCIENCE. (3) *Prerequisites: PHYS 321, MATH 237. Corequisites: MATH 331.* This course investigates the fundamental quantum physics of bonding, energetics and structure that underpins the foundation of the physics of materials. The physical properties of nanomaterials and their corresponding applications will be explored using the principles of quantum physics. Materials examined include engineered metal alloys, electronic and magnetic materials, ionic and network solids, ceramics, polymers, and biomaterials at all length scales.

PHYS 440. ELECTRICITY AND MAGNETISM I. (3) *Prerequisites: PHYS 350 and MATH 237 and 331.* A study of classical electricity and magnetism with emphasis on fields, potentials, conductors, dielectrics, steady currents and radiation.

PHYS 441. OPTICS. (3) *Prerequisites: PHYS 180 and 265 and MATH 137. Corequisite: PHYS 404.* A study of geometrical and physical optics including wave propagation, refraction, dispersion, diffraction and polarization.

PHYS 445. ELECTROMAGNETISM II. (3) *Prerequisites: PHYS 440.* The study of classical electrodynamics with emphasis on Maxwell's equations, electromagnetic waves, dispersion, and radiation.

PHYS 450. CLASSICAL MECHANICS II. (3) *Prerequisites: PHYS 350 and MATH 237 and 331.* A study of rigid body motion, moving coordinate systems, Lagrange's equations, small vibrations and the special theory of relativity as applied to mechanics.

PHYS 460. SOLID STATE PHYSICS. (3) *Prerequisites: PHYS 321, MATH 237 and 331. Corequisite: PHYS 406.* An introductory course in the theory of solids including geometrical and x-ray crystallography, Maxwell-Boltzmann and Fermi-Dirac statistics, free electron theory of metals, Brillouin Zones, band-model of semiconductors and the Hall Effect.

PHYS 465. GEOPHYSICS. (3) *Prerequisites: GEOL 111 and one year of college physics or permission of the instructor.* The basic fundamentals of general and exploration geophysics. The initial topics discussed include the origin of the earth and the solar system, the earth's interior, geochronology, gravity and isostasy, seismology, the earth's heat, geomagnetism, upper atmosphere, continents and ocean basins, ridges and island arcs, and continental drift. The theory and applications of exploration geophysics are also covered, especially gravity, magnetic and seismic methods. Equivalent to GEOL 465.

PHYS 470. NUCLEAR PHYSICS. (3) *Prerequisites: PHYS 302, 321 and MATH 331. Corequisite: PHYS 407*. The properties of the nucleus including radioactivity, radiation detectors, nuclear reactions, nuclear mass and size determination, alpha, beta, and gamma decay, nuclear models, particle accelerators, fission and elementary particles.

PHYS 475. SELECTED TOPICS IN PHYSICS. (1-3) *Prerequisites: Senior standing and permission of the instructor.* Each topic is a course in directed study under the supervision of a faculty member. Available for full credit in subsequent sessions with change of content.

PHYS 480. QUANTUM MECHANICS. (3) *Prerequisites: PHYS 321, 350, MATH 237; and one of the following: PHYS 440, 450 or MATH 435.* A study of the fundamental principles of quantum mechanics including the hydrogen and helium atoms, the harmonic oscillator, and the Schrödinger wave equation.

PHYS 489. INTERNSHIP IN PHYSICS AND ASTRONOMY. (3-6) Practical experience in a supervised work situation. Application of advanced knowledge and skills from the student's major discipline or area of career interest, with opportunities in learning the social, psychological, cultural, and communication aspects of work. The student is placed under the direction of a supervisor of a cooperating business industry, agency or institution. Includes specific learning objectives and evaluation of student using one or more of the following formats: (1) written reports, (2) seminar presentations, or (3) tests over selected readings. (May be repeated with department approval.)

PHYS 498. SENIOR SEMINAR. (.5) *Prerequisite: PHYS 398.* Weekly seminar series in current topics in physics. Each student will also prepare and give an oral presentation of current research in physics.

BIOPHYSICS MINORS

PHYS 335. GENERAL BIOPHYSICS. (4) [(3) LECTURE; (1) LAB.] *Prerequisites: PHYS 231, 332; BIOL 120 / 121; or permission of instructor.* An introduction to the major fields of biophysics in quantitative terms, with emphasis on the physical techniques applied in biomedical practice and research.

PHYS 337. MEDICAL IMAGING. (4) *Prerequisites: BIOL 120, MATH 136, and PHYS 332 or PHYS 265.* An introduction to the fundamental and quantitative principles underlying major medical imaging techniques.

PHYS 359. CLINICAL OPTICS. (4) *Prerequisites: PHYS 332, 233.* The optics of the human eye and of corrective lenses for common eye defects.

PHYS 379. NANOTECHNOLOGY IN BIOPHYSICS AND MEDICINE. (4) *Prerequisites PHYS 332, 233 or PHYS 265, 266*. The physics of nanostructures and their bio-medical applications.

PHYS 431. RADIATION BIOPHYSICS (4) [(2) LECTURE; (2) LAB.] *Prerequisites: PHYS 201-202 or PHYS 231-332.* A treatment of the properties of the various forms of radiation and their interaction with, and effects on, living matter. The laboratory offers training in the monitoring of ionizing radiations and in the techniques of radioactive isotopes as applied in biological and clinical work.

PJ – PHOTOJOURNALISM
SCHOOL OF JOURNALISM & BROADCASTING

PJ 131. INTRODUCTION TO DIGITAL PHOTOGRAPHY. (3) Introduces non-photojournalism majors to the processes and aesthetic values of digital photography, including light, composition, content and ethics. Concepts applied through hands-on projects. Students must bring digital camera to first class meeting. Lecture and Lab. ***Course Fee***

PJ 231. INTRODUCTION TO PHOTOJOURNALISM. (3) Introduces photojournalism majors to the technical, aesthetic and ethical aspects of digital photography through weekly projects. Adjustable digital SLR camera required. Must bring camera to first day of class. ***Course Fee***

PJ 233. INTERMEDIATE PHOTOJOURNALISM. (3) *Prerequisite: PJ 231.* Building on the skills and theories from Introduction to Photojournalism, students will produce documentary images that tell complex stories under various practical settings of journalistic inquiry, working on tighter deadlines and towards a higher level of expected results. Students will advance their knowledge on complicated mechanical camera technique and increase their personal photographic vision and portfolio development. Lecture and Lab. ***Course Fee***

PJ 261. INTRODUCTION TO MULTIMEDIA. (3) *Prerequisites: PJ 231 (Photojournalism majors), PJ 131 (non-majors).* Journalistic storytelling on the Web and other forms of electronic communication using photographs, words, audio, video, screen design, and navigation. Weekly assignments require transportation, digital SLR camera, audio recording device, and external hard drive. ***Course Fee***

PJ 330. INTRODUCTION TO SHORT FROM DOCUMENTARY. (3) *Prerequisite: PJ 233.* Fundamentals of documentary storytelling through the use of still photography, audio, and video. Analysis and application of the principles of video editing techniques used in the photojournalism profession. Projects require transportation, a DSLR camera that is video capable, audio recording equipment, and an external hard drive. Required off-campus travel. Lecture and lab. ***Course Fee***

PJ 333. LIGHTING TECHNOLOGIES. (3) *Prerequisites:* PJ 233 or PJ 261 by permission of instructor. Lighting techniques used in the studio and on-location applied through weekly portrait, feature, and picture story assignments. Discussion includes interviewing techniques and ethics. On-location lighting equipment and digital SLR camera required. ***Course Fee***

PJ 334. PICTURE STORIES. (3) *Prerequisite: PJ 336.* Extensive use of the multiple-picture project to develop skills in visual storytelling, caption writing, and ethics. Digital SLR camera, compact flash cards, and external hard drive required. ***Course Fee***

PJ 336. PICTURE EDITING. (3) *Prerequisite: PJ 233 (Photojournalism majors); PJ 131 (Non-Photojournalism Majors in the School of Journalism & Broadcasting); or permission of instructor.* A study of the process of making informed and ethical decisions concerning the publication of photographs. Topics include picture choice, design, and photo management. ***Course Fee***

PJ 390. PHOTOGRAPHY HISTORY/CULTURE. (3) Students will gain an understanding of the impact of the photographic image in different media, how photography has played a significant role in recording history since the 19th Century, and how the evolution of visual media has changed our perception of the world.

PJ 432. PHOTOJOURNALISM PRACTICUM. (3) *Prerequisite: PJ 362.* Practical application of concepts and skills introduced in previous photojournalism courses through work with campus and regional publications, both traditional and online. Emphasis on deadline reporting involving sports, news, and features, and how to work with ethical situations that arise from these events. Transportation, digital SLR camera, and audio equipment required. ***Course Fee***

PJ 433. ADVANCED SHORT FORM DOCUMENTARY. (3) *Prerequisite: PJ 334.* Web-based narratives course involving weekly assignments using photography, audio, and video. Web ethics explored. Transportation, digital SLR camera, external hard drive, and audio equipment required. ***Course Fee***

PJ 436. PHOTOJOURNALISM PROJECTS. (3) *Prerequisite: PJ 362.* Capstone for photojournalism major, emphasis on the long-term project and conceptual assignments. Ethics discussed. In addition to projects, each student will present a final portfolio to reflect mastery of skills. Guest lecturers from the photojournalism field enhance student learning. Transportation, digital SLR camera, and audio equipment required. Video camera recommended. ***Course Fee***

PJ 439. ADVANCED STUDIO LIGHTING TECHNIQUES. (3) *Prerequisite: PJ 333.* Advanced lighting techniques for studio photography. Techniques applied to portrait and still-life assignments. Advanced interviewing techniques for portrait work. The business of a working studio will be explored. Final project includes a portfolio and business plan. Off-campus travel required. ***Course Fee***

PLS – Paralegal Studies
Department of Political Science

PLS 190C. INTRODUCTION TO THE PARALEGAL PROFESSION. (3) Introduces state and federal judicial systems and paralegal roles and careers. Emphasizes rules of professional conduct, legal ethics and unauthorized practice of law by non-lawyers.

PLS 194C. LEGAL TECHNOLOGY. (3) Survey of computer software programs, hardware and other technology relevant to the modern law practice.

PLS 200C. LEGAL ETHICS. (3) *Prerequisite or corequisite: PLS 190C.* Study, analysis and application of codes of professional responsibility and standards of conduct governing the practice of law in state and federal courts.

PLS 250. LEGAL RESEARCH AND WRITING I. (3) *Prerequisite: PLS 190C.* The sources and techniques of performing legal research using primary and secondary authorities in a law library and online and drafting legal documents in appropriate format with correct citations.

PLS 280C. CONTRACT LAW AND THE PARALEGAL. (3) *Prerequisite: PLS 393.* Academic and practical instruction in the law of contracts, with a focus on contract formation, performance and breach.

PLS 282C. TORT LAW AND THE PARALEGAL. (3) *Prerequisite: PLS 393.* Academic and practical instruction in the law of torts, including intentional torts, negligence and strict liability to prepare students for law practice focused on assault / battery, personal injury, professional malpractice and / or property loss claims.

PLS 283C. REAL ESTATE LAW FOR THE PARALEGAL. (3) *Prerequisite: PLS 393.* Instruction in basic concepts of property law as well as practical application of the law to title examinations, real estate closing transactions and land disputes.

PLS 291C. CRIMINAL LAW AND PROCEDURE. (3) *Prerequisite or corequisite: PLS 250.* Introduces criminal law and procedure, forms and documents, and all stages of criminal litigation preparation by a paralegal using the systems approach. Emphasizes application of Kentucky law.

PLS 294C. ADMINISTRATIVE PRACTICE AND PROCEDURES. (3) *Prerequisite: PLS 250.* Detail laws pertaining to Medicaid, Medicare and related topics, and Kentucky unemployment law. Uses hands-on approach, including mock federal and state administrative hearings.

PLS 296C. FAMILY LAW. (3) *Prerequisite or corequisite: PLS 250.* This course will involve preparation of various contested and uncontested divorce pleadings to include petition for dissolution of marriage; findings of fact, conclusions of law and decree of dissolution; simple and complex separation agreements; settlement agreements; petitions for temporary custody and change in child support. Preparation of other documents to include petition for adoptions and application for AFDC. In addition, the student will receive instruction regarding skills needed in client interviewing, organization of financial records, answering of interrogatories and request for production of documents and ethical guideline to which a paralegal should adhere.

PLS 324. WOMEN AND THE LAW. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, of junior status.* An examination of treatment of women in, and by, the U.S. legal profession. Survey of landmark cases that have impact specifically on women's legal rights. ***Colonnade K-SC***

PLS 350C. EVIDENCE. (3) Study and application of rules governing discovery and admission of evidence in state and federal courts and administrative hearings.

PLS 360C. DEBTOR CREDITOR RELATIONS. Study and analysis of the types of debtor / creditor relationships, including how the relationships are developed and maintained and what legal remedies exist when the relationships deteriorate.

PLS 375. COMPARATIVE LEGAL SYSTEMS. (3) Comparative study and analysis of U.S. legal system and those of select foreign countries. Students will be responsible for fees associated with off campus travel as assigned.

PLS 381. ALTERNATIVE DISPUTE RESOLUTION METHODS AND PRACTICES. (3) *Prerequisite: PLS 393.* Examination and application of various methods of alternative dispute resolution utilized in legal disputes.

PLS 392. CORPORATE LAW. (3) *Prerequisite: PLS 250.* Examination and analysis of available business forms including formation requirements, tax and liability considerations, and operation and management concerns.

PLS 393. CIVIL PROCEDURE. (3) *Prerequisite: PLS 250.* Examination and application of federal and state rules of procedure governing a civil lawsuit from initial client contact through discovery, trail, and appeal. Coursework will focus on the role and responsibilities of the paralegal in preparing court documents, investigation, client and witness contact, discovery, trail preparation and post-trial proceedings. A mock trial will be conducted.

PLS 395. ESTATE PLANNING AND ADMINISTRATION. (3) *Prerequisite: PLS 250.* Estate planning and probate practice under Kentucky statutes, including initial steps, asset management and distribution, tax issues, wills and trusts, and drafting related documents required for planning and probate.

PLS 400. SPECIAL TOPICS FOR PARALEGALS. (1-6) This course is an examination of historical and contemporary special topics in paralegal studies. Students are responsible for arranging their own transportation for off campus travel as assigned. Repeatable for credit.

PLS 450. LEGAL RESEARCH AND WRITING II. (3) *Prerequisites: PLS 250 and PLS 393.*The sources and techniques of performing online, independent legal research, critical analysis of fact and law, legal argument development and drafting advanced legal documents.

PLS 499. INTERNSHIP IN PARALEGAL STUDIES. (3) *Prerequisites: PLS 250, 393, and 450 (PLS 450 may be a prerequisite or corequisite).* Program advisor approval and advanced registration required. Students must document a minimum number of hours of practical experience in an external legal setting under an attorney's supervision. (Grading: Pass / Fail)

POP – Popular Culture Studies
Department of Communication

POP 201. INTRODUCTION TO POPULAR CULTURE STUDIES. (3) *Prerequisite: ENG 100 or the equivalent or permission of instructor.* An interdisciplinary introduction to the major theories and subjects of the study of popular culture. The course offers a range of theoretical and methodological approaches to considering the producers, audiences, and meanings of the culture of everyday life in a variety of historical and cultural contexts. ***Colonnade E-AH | AH***

POP 389. INDEPENDENT STUDIES IN POPULAR CULTURE STUDIES. (1-3) *Prerequisites: Completion of POP 201, Junior or Senior standing, and permission of instructor.* Supervised individual study in a topic or area of Popular Culture Studies that is of particular interest to the student. Requires instructor permission.

POP 399. SPECIAL TOPICS IN POPULAR CULTURE STUDIES. (3) A detailed study of special topics in popular culture studies.

POP 498. SENIOR SEMINAR IN POPULAR CULTURE STUDIES. (1) *Prerequisites: POP 201 and at least 21 hours in major and senior standing, or permission of instructor.* A capstone course designed for popular culture studies majors. Under the guidance of a faculty mentor, students will complete a substantial independent research or creative project and share their work with peers in a seminar setting.

PR – Public Relations
Department of Communication

PR 255. FUNDAMENTALS OF PUBLIC RELATIONS. (3) *Prerequisite: Sophomore standing.* Introduction to principles, practices and theory of public relations. Provides basic understanding of role played by PR in society; historical, ethical and sociological foundations of PR; and tasks and functions performed in organizations by those responsible for managing and implementing PR activities

PR 350. LEGAL AND ETHICAL FOUNDATIONS OF STRATEGIC COMMUNICATION. (3) Study of the interconnection legal and ethical responsibilities relevant to those in public relations, advertising, and related communication contexts.

PR 354. INTERNATIONAL PUBLIC RELATIONS. (3) *Prerequisite: Junior standing.* Issues and processes relating to the practice of international public relations, including international public relations campaign and business styles.

PR 356. DIGITAL TACTICS IN PUBLIC RELATIONS. (3) *Prerequisite: PR 255 and JOUR 202 with a grade of "C" or better, or permission of instructor*. Examines the strategic use of digital and social media platforms and tools for public relations purposes with an emphasis on hands-on experience and skills. Lecture and lab. ***Course Fee***

PR 358. PUBLIC RELATIONS WRITING AND PRODUCTION. (3) *Prerequisites: PR 255 and JOUR 202 with a grade of "C" or better, or permission of instructor*. Writing and production of print and electronic messages to achieve organizational objectives. Includes writing styles appropriate for various media and publication design strategies to achieve public relations goals. ***Course Fee***

PR 400. SPECIAL TOPICS IN PUBLIC RELATIONS. (3) *Prerequisite: Sophomore standing and COMM 200 or ENG 300 or instructor permission*. Various public relations topics not covered specifically in the curriculum. Repeatable once for a total of 6 hours.

PR 415. STUDY ABROAD IN PUBLIC RELATIONS. (3) Public relations and culture in international and cross-cultural locations. Repeatable once for a total of 6 hours.

PR 454. PUBLIC RELATIONS STRATEGY AND PLANNING. (3) *Prerequisites: AD 300 or COMM 300 or PS 301 or SOCL 302, and PR 356 or PR 358, all with a grade of "C" or better, or instructor permission*. Course in conceptualizing, managing, monitoring and implementing specialized programs. Practical guidance and experience in applying logic, implementation and evaluation and development of PR case studies. Actual clients are often used. ***Course Fee***

PR 456. PUBLIC RELATIONS MANAGEMENT. (3) *Prerequisites: PR 454 with a grade of "C" or better or instructor permission*. Advanced course in conceptualizing, managing, monitoring and implementing specialized commercial and social programs for corporate, service and government institutions. This capstone course in PR involves interaction with actual clients. ***Course Fee***

PR 489. PR INTERNSHIP OR PRACTICUM. (3) *Prerequisites: Permission of instructor. For Public Relations majors only.* Professional-quality experience outside or inside the University for a fixed period of time. Follow-up with consist student reports and employer evaluation. Open only to Public Relations majors. Course will be repeatable once for credit (only 3 hours will count for credit toward major).

PR 495. INDEPENDENT STUDY IN PUBLIC RELATIONS. (1-6) *Prerequisite: COMM 200 with a grade of "C" or better, and permission of instructor.* Develops directed research in Public Relations. Students must submit a written petition for faculty approval of the study in the semester prior to enrolling.

PS– Political Science
Department of Political Science (PS)

GENERAL COURSES

PS 201. CONCEPTS OF POLITICAL SCIENCE. (3) Examines the linkage between politics and political thought in modern societies. Students apply a variety of theoretical concepts to specific policy areas.

PS 299. CONTEMPORARY TOPICS IN POLITICAL SCIENCE. (1-3) Examination of significant current issues in political science not covered in regular departmental offerings.

PS 300. MODEL ASSEMBLY (SEMINAR). (1) *Prerequisite: PS 250.* Explores the workings of a major international organization (e.g., NATO, OAU, Arab League, or UN). Students portray delegates to the organization at a simulation involving university students from around the country. The country being portrayed, the organization being simulated, and cost to student vary year by year.

PS 301. RESEARCH METHODS IN POLITICAL BEHAVIOR. (3) *Prerequisite: 3 credit hours of a Political Science course or permission of the instructor.* The understanding and application of scientific research methods for the analysis of political behavior; theoretical and applied skills in research development and analysis using contemporary computer techniques.

PS 303. POLITICS AND FILM. (3) Explores the relationship between politics and film. Demonstrates how film serves as a political archive and agent of social change and how film affects political views and representations of reality.

PS 330. INTRODUCTION TO POLITICAL THEORY. (3) *Prerequisite: 3 hours of Political Science courses or permission of the instructor.* A survey of the great thinkers and issues of politics that have shaped western civilization.

PS 331. POLITICS OUTSIDE THE BOX. (3) Provides insight into the social construction of power by investigating political symbols, characters and argument in popular culture and public policy.

PS 400. SELECTED TOPICS IN AMERICAN GOVERNMENT. (3) *Prerequisite: Junior or senior class standing or permission of instructor.* Course provides advanced students with an opportunity to analyze important substantive problems and current issues not presently covered by departmental offerings. May be repeated once.

PS 403. FIELD STUDIES IN POLITICS. (3) Course is designed to involve students in practical problems of political research. Students are directed through the design and execution of a major field study. May not be repeated toward major or minor credit. *(*Grading: Pass / Fail)

PS 405. WASHINGTON INTERNSHIP AND ACADEMIC SEMINARS. (3-6) An individualized internship and / or seminar experience in Washington, D.C. tailored to the student's area of interest. Placement is determined by the department academic advisor in collaboration with Washington professionals. May not be repeated toward major or minor credit. (Grading: Pass / Fail)

PS 407. DIRECTED STUDIES IN GOVERNMENT. (3) *Prerequisites: 3.0 grade point average.* Allows students to work independently with a specific instructor on an approved topic, issue or political concept / theme.

PS 430. SELECTED TOPICS IN POLITICAL THEORY. (3) Examination of specialized topics in political theory not covered in regular departmental offerings.

PS 435. AMERICAN POLITICAL THOUGHT. (3) *Prerequisite: 3 hours of Political Science courses or permission of the instructor.* A study of American political theory from the American Revolution to the present, including issues such as slavery, civil rights, and the meaning of political and economic freedom.

PS 497. SENIOR SEMINAR IN INTERNATIONAL AFFAIRS. (3) *Prerequisite: Senior standing or permission of instructor.* A capstone seminar that strengthens students' research, written and oral communication skills in international affairs and engages students and faculty in sustained consideration of significant international issues / questions.

PS 499. SENIOR SEMINAR IN GOVERNMENT. (3) *Prerequisite: Senior standing.* Integrates concepts and approaches learned during study of government. Engages students and faculty in sustained consideration of significant political issues / questions.

AMERICAN GOVERNMENT AND POLITICS

PS 110. AMERICAN NATIONAL GOVERNMENT. (3) The essentials of the political system and processes, particularly at the national level, in the United States. ***Colonnade E-SB | SB***

PS 304. STATE GOVERNMENT. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* Political features of the American states and their governments. Explores similarities and differences among the states' constitutions and key governmental institutions. ***Colonnade K-SY***

PS 310. THE AMERICAN PRESIDENCY. (3) An examination of the American presidency as a political institution; and the development of the presidential office, its powers and functions.

PS 316. THE LEGISLATIVE PROCESS. (3) A study of legislatures and their role in the American government system. The emphasis is on the U.S. Congress but other legislative bodies are also studied.

PS 320. AMERICAN STUDIES I. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* This course is designed to examine the diverse origins and the decisive elements in the development of American culture. It should also provide a wide appreciation and a greater understanding of the mainstream of American thought. These goals are accomplished through the coordinated application of numerous viewpoints drawn from the contributing disciplines of English, Political Science and History. Equivalent to HIST 320. ***Colonnade K-SC***

PS 321. AMERICAN STUDIES II. (3) *Prerequisite: Junior standing or permission of instructor.* This course is designed to examine the diverse origins and the decisive elements in the development of American culture. It should also provide a wide appreciation and a greater understanding of the mainstream of American thought. These goals are accomplished through the coordinated application of numerous viewpoints drawn from the contributing disciplines of English, Political Science and History.

PS 370. AMERICAN POLITICAL PARTIES AND INTEREST GROUPS. (3) Explores the role that political parties and interest groups play in American politics.

PS 377. POLITICS OF THE AMERICAN SOUTH. (3) Examination of politics in the American South from the pre-Civil War era to the present.

PS 412. KENTUCKY GOVERNMENT AND POLITICS. (3) *Prerequisite: PS 110 or permission of instructor.* A general survey course tracing the government and political development of the state from its constitutional beginning to the present. Primary focus will be on the major factors and issues in the state's political development within the context of the national governmental setting. The course will trace the role and influence of various political and social institutions in the state's political development and their implications for the current political and governmental situation.

PUBLIC ADMINISTRATION

PS 311. PUBLIC POLICY. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* Examines how issues get on the government agenda; how policy decisions are made; who implements policy and how well ***Colonnade K-SY***

PS 338. GOVERNMENT AND ETHICS. (3) *Prerequisite: PS 110 or permission of the instructor.* Course examines ethical issues and controversies emerging from the behavior and decisions of public officials within the American political system. A variety of pedagogical techniques are employed to stimulate and develop ethical thinking, moral reasoning and written and oral communication skills.

PS 340. PRINCIPLES OF PUBLIC ADMINISTRATION. (3) An exploration of theoretical and practical issues related to the administration of public programs, policies and organizations.

PS 480. SELECTED TOPICS IN PUBLIC POLICY. (3) *Prerequisite: Permission of the instructor.* Seminar on special topics in public policy and public administration.

PS 498. INTERNSHIP IN PUBLIC ADMINISTRATION. (3) *Prerequisites: PS 301 and 440 and permission of the instructor.* Designed to provide the student with work experience in a public sector or non-profit agency combined with faculty direction. *(*Grading: Pass / Fail)

PUBLIC LAW

PS 220. JUDICIAL PROCESS. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* An introduction to the American legal system, the process of legal reasoning and legal resolution of value conflicts. ***Colonnade K-SY***

PS 324. MOCK TRIAL I. (1.5-3) *Prerequisite: PS 110 or permission of instructor.* Introductory study of trial techniques used by lawyers in the courtroom. Students gain an appreciation for courtroom procedure, legal issues and public speaking by taking on the roles of attorneys and witnesses in a fictitious courtroom trial. (Grading: Pass / Fail)

PS 325. MOCK TRIAL II. (1.5-3) *Prerequisites: PS 324 and PS 110 or permission of the instructor.* Continuation of study of trial techniques used by lawyers in the courtroom. Students will concentrate on trial strategy, examination of witnesses and the presentation of arguments by taking on the roles of attorneys in a fictitious courtroom trial. (Grading: Pass / Fail)

PS 326. CONSTITUTIONAL LAW. (3) Study and analysis of leading constitutional decisions dealing with judicial review, government powers over domestic and foreign affairs, federalism and the relationships between the functional branches of government.

PS 327. CIVIL LIBERTIES. (3) Study and analysis of leading constitutional decisions and other materials concerning individual liberties in the U.S.

PS 328. CRIMINAL JUSTICE PROCEDURES. (3) A study of constitutional criminal procedure, principally under the Fourth, Fifth, Sixth, Eighth, Ninth, and Fourteenth Amendments to the U.S. Constitution.

PS 420. SELECTED TOPICS IN PUBLIC LAW. (3) *Prerequisite: PS 110 or permission of instructor.* Course provides students with the opportunity to analyze important legal questions and current issues related to the field of public law. May be repeated once for credit.

PS 424. ADMINISTRATIVE LAW. (3) *Prerequisite: Junior standing or permission of instructor.* A study of the development of and trends in administrative law with emphasis on the problems caused by the exercise of quasi legislative and quasi-judicial powers by administrative agencies, including the rights, duties and liabilities of public officials, relief against administrative action, jurisdiction, conclusiveness and judicial control.

POLITICAL CAMPAIGN MANAGEMENT

PS 371. PUBLIC OPINION AND ELECTORAL BEHAVIOR. (3) A study of the formation and expression of public opinion, of the attitudes and experiences which influence voting, and of the manner in which public policy is related to opinion and elections.

PS 372. POLITICS AND THE MASS MEDIA. (3) *Prerequisite: PS 110.* A study of the impact of television, newspapers, news magazines, and radio on national political institutions and political processes.

PS 373. MINORITY POLITICS. (3) A study of the contemporary status and efforts made by African Americans, Hispanics and other minority groups to organize for political action; discusses political and socioeconomic constraints on the development of that power.

PS 374. WOMEN AND POLITICS. (3) An examination of the political, economic and social status of American women from an historical and contemporary perspective; explores issues of concern to women in a political context.

PS 375. FUNDAMENTALS OF POLITICAL CAMPAIGN MANAGEMENT. (3) Provides students with an orientation to the basic systems and interrelated roles, which must be managed in order to produce electoral victory.

PS 376. POLITICAL MANAGEMENT. (3) Applied course with focus on developing skills related to political management including fundraising, issue advocacy, and media strategy.

PS 488. SEMINAR IN POLITICAL COMMUNICATION. (3) *Prerequisite: Senior standing, or permission of instructor.* The role, processes, and effects of communication within the context of politics. This course is required of all Political Communication Certificate students.

INTERNATIONAL RELATIONS

PS 250. INTERNATIONAL POLITICS. (3) An introductory course in international relations which is designed to acquaint the student with basic theories, terminology, motivations, inter-relationships and problems on an international scale. ***Colonnade E-SB | SB***

PS 350. POLITICAL TERRORISM. (3) *Prerequisite:* A survey of terrorism, recent trends, organizational structure, negotiations, role of the media, counter terrorism, and the impact on modern democracies.

PS 355. INTERNATIONAL ORGANIZATION AND LAW. (3) *Prerequisite: PS 250 or permission of the instructor.* Explores how the behavior of nominally sovereign countries is constrained or otherwise influenced by international law and other efforts to "organize" international relations. International institutions such as the United Nations and the Organization for Security and Cooperation in Europe are examined.

PS 357. U.S. FOREIGN POLICY. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* Analysis of the pattern and process of U.S. foreign policy, particularly in the contemporary era. Includes study of the major internal and external factors, which shape foreign policy decisions. ***Colonnade K-LG***

PS 449. INTERNATIONAL POLITICAL ECONOMY. (3) *Prerequisites: PS 250, 260 or permission of instructor.* Explores the role of governments, corporations, non-governmental entities and multilateral institutions in the global economy. Discusses issues of free trade and protectionism, both tariffs and non-tariff barriers to trade. Examines issues of monetary policy in national and international contexts.

PS 450. SELECTED TOPICS IN INTERNATIONAL RELATIONS. (3) Based in a seminar setting, this course facilitates an extensive exploration of particular aspects of international relations in the contemporary world.

PS 457. THEORIES OF WAR AND PEACE IN INTERNATIONAL RELATIONS. (3) *Prerequisite: PS 250 or permission of the instructor.* Explores the various theories of the outbreak, conduct and causes of war and theories of war termination and international peace.

COMPARATIVE GOVERNMENT AND POLITICS

PS 200. LATIN AMERICAN SOCIETY: PAST AND PRESENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* This course is a broad interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures. Equivalent to GEOG 200, HIST 200, and SPAN 200. ***Colonnade K-SC***

PS 260. INTRODUCTION TO COMPARATIVE POLITICS. (3) This course examines various characteristics of different political systems around the world. It introduces contending theories which seek to explain differences and similarities in governments and politics. ***Colonnade E-SB | SB***

PS 360. GOVERNMENT AND POLITICS OF BRITAIN AND CANADA. (3) *Prerequisite: PS 260 or permission of the instructor.* A comparative analysis of the political cultures, institutions and processes of Britain and Canada. Course includes a comprehensive study of the parliamentary executive system and reference to major topical problems.

PS 361. GOVERNMENT AND POLITICS OF WESTERN EUROPE. (3) Structured comparative analysis of various Western European states. Includes an examination of political cultures, institutional organizations, and the policy processes in selected states.

PS 362. LATIN AMERICAN GOVERNMENT AND POLITICS. (3) *Prerequisite: PS 260 or permission of the instructor.* Basic governmental and political processes in Latin America. Emphasis on social and economic problems, political development, leadership recruitment, political instability and change.

PS 363. POLITICS OF DEVELOPING NATIONS. (3) A study of the political culture, processes and problems of nations that have become independent since World War II.

PS 365. GOVERNMENT AND POLITICS OF THE MIDDLE EAST. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status.* A comparative analysis of the political culture, institutions and processes of key Middle Eastern states. Focuses on issues of international and geostrategic significance of the region. ***Colonnade K-LG***

PS 366. GOVERNMENT AND POLITICS IN EAST ASIA. (3) An analysis of political development in selected east Asian nations, including Japan, Korea, China, Singapore and Thailand. Includes study of the interrelationship between politics, economics and culture primarily in the post-World War II period.

PS 367. GOVERNMENT AND POLITICS OF RUSSIA AND EASTERN EUROPE. (3) An analysis of government and politics of Russia and Eastern European countries with emphasis on political processes and institutions, political and economic reforms, and the prospects for democratic government.

PS 368. AFRICAN GOVERNMENT AND POLITICS. (3) *Prerequisites: PS 250, PS 260 or permission of the instructor.* Examines sub-Saharan African political and economic development. Focuses on several selected countries and explores the common political and economic problems and opportunities confronting African states.

PS 369. CENTRAL EUROPEAN POLITICS. (3) A comparative analysis of the political culture, institutions and processes of Central European states and an examination of the impact of religion, empire and ideology on the political development of that region.

PS 460. SELECTED TOPICS IN COMPARATIVE POLITICS. (3) Based on a seminar setting, this course facilitates an extensive exploration of particular aspects of comparative politics in the contemporary world.

The following courses are offered only in Frankfort for students who are participating in the Kentucky Legislative Intern Program:

PS 490. INTERNSHIP IN STATE GOVERNMENT. (6) Evaluation by the academic coordinator and agency supervisors of the intern's performance of assigned agency functions. Interns are full-time employees (40 hr / wk) for the duration of their internship program. Job assignments are made with the mutual consultation and consent of the intern, the agency and the academic coordinator.

PS 491. RESEARCH IN STATE GOVERNMENT. (3) Submission of a major research paper by the intern to an academic coordinator. Research is supervised by the academic coordinator in conjunction with the agency supervisor. May deal with assigned agency research function or may be independent of intern's role, but related to the agency need.

PS 492. KENTUCKY LEGISLATIVE PROCESSES. (3) *Prerequisite: Acceptance into the Kentucky Legislative Intern Program.* Focuses on contemporary problems and processes of the state legislative process. Discusses and analyzes state legislative affairs through discussion of issues by key state government personnel as well as through textbook materials.

PS 493. ISSUES IN HUMAN RESOURCE MANAGEMENT. (3) Focuses on Kentucky public personnel practices; examines the Kentucky merit system in theoretical and applied context; extensive emphasis on practical knowledge and use of State personnel for class lectures and projects.

PSY– PSYCHOLOGY
DEPARTMENT OF PSYCHOLOGY (PSY)

PSY 100. INTRODUCTION TO PSYCHOLOGY. (3) An introductory course dealing with principles of behavior, scientific methods of psychology, measurement, learning, perception, motivation, development, personality, abnormal behavior, social behavior, intelligence, and other topics. Equivalent to PSYS 100. ***Colonnade E-SB | SB***

PSY 175. UNIVERSITY EXPERIENCE. (3) *Special Requirements: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.* Transition to university experience. Topics include study skills, library education, exploration of majors and careers, degree programs, campus resources and personal development. Special attention is given to educational requirements, careers and resources in the field of psychology.

PSY 210. RESEARCH METHODS IN PSYCHOLOGY. (3) *Prerequisites: PSY 100 with a grade of "C" or higher. Corequisite: PSY or PSYS 211.* Introduction to scientific thinking, research design, and research methods in psychology. Includes the nature of scientific explanations, validity, reliability, measurement scales, the rationale underlying hypothesis testing, critical evaluation of scientific evidence presented in journals and popular media, and how to write research reports. Equivalent to PSYS 210.

PSY 211. RESEARCH METHODS IN PSYCHOLOGY LABORATORY. (1) *Prerequisites: PSY 100 with a "C" or better. Corequisite: PSY 210.* Laboratory course to accompany PSY 210. Laboratory exercises involving research design, methodology, data collection, methods of organizing and presenting data, and research report writing. Equivalent to PSYS 211.

PSY 220 INTRODUCTION TO LIFESPAN DEVELOPMENTAL PSYCHOLOGY. (3) A general course in developmental psychology covering the entire life span. Included are a description of growth stages, theories of development, and research methods of development. Equivalent to PSYS 220. ***Colonnade E-SB | SB***

PSY 250. ADJUSTMENT AND PERSONAL GROWTH. (3) Individual, social, and cultural determinants of personal growth and healthy life adjustment. Topics include stress and coping, relationships, values, career development, and decision-making.

PSY 290. SUPERVISED STUDY IN PSYCHOLOGY. (1-3) *Prerequisite: PSY 100.* Directed readings or research under faculty supervision. Students must make their own arrangements in advance for supervision by a faculty member. May be repeated for a total of up to six hours, with no more than three hours counted in the psychology major.

PSY 299. SELECTED TOPICS IN PSYCHOLOGY (SEMINAR). (1-3) *Prerequisite: PSY 100.* Study and discussion focusing on various issues in psychology; topics will vary based on faculty and student interest. May be repeated for a total of up to six hours, with no more than three hours counted in the psychology major.

PSY 310. EDUCATIONAL PSYCHOLOGY: DEVELOPMENT AND LEARNING. (3) *Prerequisite: PSY 100 or PSY 220 and one of the following: EDU 250, MGE 275, AGED 250, SMED 101, SMED 301, IECE 321, AMS 329, or permission of instructor.* A required educational psychology course for students seeking teacher certification. Educational psychology is designed to give the student a thorough understanding of the theories and principles of psychology as applied to teaching and learning. The students will demonstrate knowledge, understanding, and application of theories and principles of development, learning, memory, motivation, individual differences, instruction, classroom management, and measurement and evaluation. PSY 310 may not be counted toward the psychology major or minor.

PSY 313. STATISTICS IN PSYCHOLOGY. (3) *Prerequisites: PSY 210 and 211 with a grade of "C" or better.* Methods of organizing, describing, and analyzing psychological data. Equivalent to PSYS 313.

PSY 331. PSYCHOLOGY OF LEARNING. (3) *Prerequisites: PSY 210 and PSY 211 with a grade of "C" or better, and junior standing or permission of instructor.* Facts and principles of human and animal learning, especially as these have been treated in theories attempting to provide a general framework for understanding what learning is and how it takes place.

PSY 339. INTELLIGENCE AND CREATIVITY. (3) *Prerequisite: PSY 100.* A survey of the history, theories, nature, measurement, origins in heredity and environment, contemporary research, social influence, and uses and abuses of the concepts of intelligence and creativity.

PSY 340. SPORT PSYCHOLOGY. (3) *Prerequisite: PSY 100.* Theory, topics, and applications within the field of sport and exercise psychology.

PSY 346. FOUNDATIONS OF CLINICAL AND COMMUNITY BEHAVIORAL HEALTH. (3) *Prerequisite: Declared minor in Clinical and Community Behavioral Health.* Survey of basic knowledge, skills, and values appropriate for clinical and behavioral health professionals, and the agencies, roles and services provided. Field trips to agency sites will be required. Students are responsible for arranging their own transportation.

PSY 350. SOCIAL PSYCHOLOGY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. A general introduction to social psychology for majors and non-majors in psychology. The psychology of how people think about and relate to others. Topics include love, altruism, aggression, conformity, behavior in groups, leadership, intergroup conflict, prejudice, and persuasion. Equivalent to PSYS 350. ***Colonnade K-SC***

PSY 355. ISSUES IN CROSS-CULTURAL PSYCHOLOGY. (3) *Prerequisites: PSY 100 or equivalent and sophomore standing.* Examines the impact of culture on major principles, theories, and applications of psychology, including social behavior, gender, communication, development and abnormal psychology. Involves interacting with people from diverse cultural backgrounds.

PSY 371. THE PSYCHOLOGY OF SALES BEHAVIOR. (3) This course includes the psychology of consumer behavior and its implications for sales ethics, psychology of the behavior of sales personnel, the psychology and techniques of the sales process, sales motivation advertising psychology, and the psychology of sales management.

PSY 390. FIELD EXPERIENCE IN PSYCHOLOGY. (3-6) *Prerequisites: Junior standing; Psychology Major or Minor with 12 hours in psychology; approval of the department and a 2.5 GPA in psychology. Field placement sites are approved based on consistency with the student's academic preparation.* Practical work experience in a supervised psychology-related work setting with a cooperating psychology or human services agency, private business, or industry. PSY 390 may be taken for 3 hours credit at one time. Only three hours will count toward the psychology major or minor. Students are responsible for arranging their own transportation to designated or assigned sites.

PSY 412. PSYCHOLOGY OF MOTIVATION AND EMOTION. (3) *Prerequisites: PSY 100 and junior standing or permission of the instructor.* A study of the principal theories of motivation and emotion. Examination of needs, cognition, and social aspects. Includes a critical review of research and application of these theories to human behavior.

PSY 421. PSYCHOLOGY OF EARLY ADOLESCENCE. (3) *Prerequisites: PSY 100 and junior standing or permission of the instructor.* Focuses on theory and research related to cognitive, personality, and social development in early adolescence. Theories are applied to important developmental contexts such as peers, families, and learning environments. Designed for students planning to meet middle grades certification requirements. Either PSY 421 or PSY 422, but not both, may be taken to satisfy the requirements of the psychology major or minor.

PSY 422. ADOLESCENT PSYCHOLOGY. (3) *Prerequisites: PSY 100 or FACS 191 and junior standing or permission of the instructor.* Introduction to behavior and development from early adolescence to adulthood, emphasizing a critical review of research and literature. Either PSY 421 or PSY 422, but not both, may be taken to satisfy requirements of the Psychology major or minor. Equivalent to FACS 422.

PSY 432. PSYCHOLOGY OF THE GIFTED AND CREATIVE. (3) *Prerequisite: PSY 100 and junior standing or permission of the instructor.* The course covers identification of gifted children and adults with an emphasis upon the development of educational programs which maximize the development of giftedness. Included will be a critical review of research and literature in the areas of giftedness and creativity.

PSY 435. MORAL DEVELOPMENT AND EDUCATION. (3) *Prerequisites: PSY 100 and junior standing or permission of the instructor.* An in-depth study of and reflection upon psychological theories of morality, moral development, moral functioning and current models of moral education and professional identity.

PSY 436. APPLIED COGNITIVE PSYCHOLOGY. (3) *Prerequisite PSY/PSYS 210 and PSY/PSYS 211 or permission of the instructor.* This course will focus on the application of empirical cognitive findings to real-world memory tasks, reasoning, and problem-solving.

PSY 440. ABNORMAL PSYCHOLOGY. (3) *Prerequisites: Six hours in psychology, including PSY 100, and junior standing or permission of instructor.* Introduction to abnormal psychology emphasizing forms of abnormal behavior, etiology, developmental factors, interpretations, behavioral manifestations and treatment programs. Equivalent to PSYS 440.

PSY 441. PSYCHOLOGICAL ASPECTS OF ALCOHOLISM. (3) *Prerequisites: PSY 100, 440 and permission of instructor.* Intensive study of theories and research regarding alcoholism; emphasis on application of psychological theories to the treatment of alcoholism and on psychological research regarding alcoholism.

PSY 442. BEGINNING SKILLS IN PSYCHOLOGICAL INTERVIEWING. (3) *Prerequisites: Six hours in psychology, including PSY 100, junior standing and permission of instructor.* Paraprofessional skills for conducting structured and unstructured interviews in non-therapy settings. Emphasizes skills development in addition to theoretical material.

PSY 443. BEHAVIOR MODIFICATION. (3) *Prerequisites: Six hours in psychology, including PSY 100, and junior standing or permission of the instructor.* Introduction to theory and application of behavioral modification techniques. Emphasizes the use of behavior modification in education, child rearing, clinics, and self-modification. Course activities or assignments may require the individual to disclose personal information.

PSY 445. INTRODUCTION TO CLINICAL AND SCHOOL PSYCHOLOGY (3) *Prerequisite: Junior or senior standing.* Survey of theories, models, and techniques in clinical and school psychology. Includes emphasis on professional ethics for psychologists.

PSY 470. PSYCHOLOGY AND LAW. (3) *Prerequisites: PSY 100 and junior standing or permission of instructor.* Psychological knowledge that is pertinent to the legal system. Emphasis on how human characteristics and psychological factors influence attitudes, decisions, and behavior throughout the legal process. Field trips to off-campus locations will be required. Students are responsible for arranging their own transportation.

PSY 481. HISTORY OF PSYCHOLOGY. (3) *Prerequisites: PSY 100 / PSYS 100 and junior standing or permission of instructor.* Overview of major historical developments in psychology and related scientific disciplines, such as medicine, neurophysiology, and physics. Emphasizes developments over the past 500 years. History of the scientific study of human / animal behavior, as well as cognitive, perceptual, and mental functioning. Equivalent to PSYS 481.

PSY 490. RESEARCH, READINGS OR SPECIAL PROJECTS IN PSYCHOLOGY. (1-3) *Prerequisites: PSY 100 / PSYS 100, junior standing, and permission of the faculty project supervisor.* Advanced students will conduct research and / or readings or projects concerning issues in psychology under the direction of faculty members. The course may be repeated; up to six hours can be counted toward the major.

PSY 499. SENIOR SEMINAR IN PSYCHOLOGY. (3) *Prerequisites: 12 hours in psychology, including PSY 100 / PSYS 100, and senior level classification.* Seminar in which major concepts and issues in psychology are considered. Directed reading, guest lectures, field trips, and / or oral reports by students are utilized. Equivalent to PSYS 499.

PSYS – PSYCHOLOGICAL SCIENCES
DEPARTMENT OF PSYCHOLOGICAL SCIENCES

PSYS 100. INTRODUCTION TO PSYCHOLOGY. (3) An introductory course dealing with principles of behavior, scientific methods of psychology, measurement, learning, perception, motivation, development, personality, abnormal behavior, social behavior, intelligence, and other topics. Equivalent to PSY 100. ***Colonnade E-SB | SB***

PSYS 160. INTRODUCTION TO BIOPSYCHOLOGY. (3) An introductory class emphasizing the contributions of molecular, cellular, physiological, and evolutionary biology to the scientific understanding of psychological processes. Topics include the brain and nervous system, sensation and perception, hormones and behavior, and the interaction of genes and environment. ***Colonnade E-NS | NS***

PSYS 161. INTRODUCTION TO BIOPSYCHOLOGY LABORATORY. (1) *Prerequisite/corequisite: PSYS 160.* A laboratory class that accompanies an introductory class emphasizing the contributions of molecular, cellular, physiological, and evolutionary biology to the scientific understanding of psychological processes. This class provides hands-on experience in a cross section of techniques used in this area of science. ***Colonnade E-SL***

PSYS 210. RESEARCH METHODS IN PSYCHOLOGY. (3) *Prerequisite: PSYS or PSY 100 with a grade of "C" or higher. Corequisite: PSY or PSYS 211.* Introduction to scientific thinking, research design, and research methods in psychology. Includes the nature of scientific explanations, validity, reliability, measurement scales, the rationale underlying hypothesis testing, critical evaluation of scientific evidence presented in journals and popular media, and how to write research reports. Equivalent to PSY 210.

PSYS 211. RESEARCH METHODS IN PSYCHOLOGY LABORATORY. (1) *Prerequisites: PSYS or PSY 100 with a C or better. Corequisite: PSYS 210.* Laboratory course to accompany PSYS 210. Laboratory exercises involving research design, methodology, data collection, methods of organizing and presenting data, and research report writing. Equivalent to PSY 211.

PSYS 220. INTRODUCTION TO LIFESPAN DEVELOPMENTAL PSYCHOLOGY. (3) A general course in developmental psychology covering the entire life span. Included are a description of growth stages, theories of development, and research methods of development. Equivalent to PSY 220. ***Colonnade E-SB | SB***

PSYS 290. SUPERVISED STUDY IN PSYCHOLOGICAL SCIENCES. (1-3) *Prerequisite: PSYS or PSY 100, or PSYS 160.* Directed readings or research under faculty supervision. Students must make their own arrangements in advance for supervision by a faculty member. Does not count towards completion of the major in psychological science.

PSYS 300. WRITING IN PSYCHOLOGICAL SCIENCES. (3) *Prerequisite: ENG 200, and PSYS 160 or PSYS 100 or PSY 100.* Learning to write about research in neural and behavioral science within the discipline in American Psychological Association (APA) style and for a lay audience. ***Colonnade F-W2 | WC***

PSYS 313. STATISTICS IN PSYCHOLOGY. (3) *Prerequisites: PSYS 210 and 211 with a grade of "C" or better* . Methods of organizing, describing, and analyzing psychological data. Equivalent to PSY 313.

PSYS 321. CHILD DEVELOPMENTAL PSYCHOLOGY. (3) *Prerequisite: PSYS or PSY 100 or PSYS or PSY 220.* An introduction to the factors influencing normal psychological development during infancy and childhood. Theories, methodology, and current research in child development, including prenatal, physical, language, cognitive, social, and personality development, are considered.

PSYS 322. LABORATORY IN DEVELOPMENTAL PSYCHOLOGY. (1) *Prerequisite: PSYS / PSY 210 with a grade of C or better or permission of the instructor. Prerequisite / Corequisite: PSYS 321.* This course provides a laboratory-based introduction to research in developmental psychology. Students will learn about the unique research designs, methodologies, and ethical concerns related to conducting developmental psychology research. At the same time students will learn some of the major methods used by developmental psychologist through hands-on experience using a variety of research techniques.

PSYS 331. PRINCIPLES OF HUMAN AND ANIMAL LEARNING. (3) *Prerequisites: PSYS or PSY 210 and PSYS or PSY 211 with a grade of "C" or better.* Overview of theory and research in human and animal learning, emphasizing classical and instrumental conditioning, aversive conditioning, and comparative psychology.

PSYS 333. COGNITIVE PSYCHOLOGY. (3) *Prerequisites: PSYS or PSY 210 and PSYS or PSY 211 with a grade of "C" or better, or permission of the instructor.* Overview of theory and research in human cognition, with primary emphasis on attention, memory, judgment and decision-making, and problem solving. Cognition in special populations (e.g., elderly, brain-injured, mentally disordered) is also covered.

PSYS 334. LABORATORY IN COGNITION. (1) *Prerequisite: PSYS / PSY 210 with a grade of "C" or better, or permission of the instructor. Prerequisite / Corequisite: PSYS 333.* Laboratory emphasizing experimental design and data collection in cognitive psychology.

PSYS 350. SOCIAL PSYCHOLOGY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. A general introduction to social psychology for majors and non-majors in psychology. The psychology of how people think about and relate to others. Topics include love, altruism, aggression, conformity, behavior in groups, leadership, intergroup conflict, prejudice, and persuasion. Equivalent to PSY 350. ***Colonnade K-SC***

PSYS 353. PSYCHOLOGY OF PREJUDICE AND STEROTYPING. (3) *Prerequisites or Corequisites: PSYS 100 or PSY 100 or SOCL 100*, *and 21 hours of Foundations and Explorations Courses, or junior status.* Presents classic and current social-psychological theory and research in the area of prejudice and stereotyping. You will learn some of the social-cognitive principles by which these phenomena occur and have the opportunity to apply this learning to your own life. ***Colonnade K-SY***

PSYS 360. BEHAVIORAL NEUROSCIENCE. (3) *Prerequisites: PSYS or PSY 210 and PSYS or PSY 211 with a grade of "C" or better, or permission of the instructor.* An examination of the neurological bases of behavior emphasizing brain processes and structures underlying major psychological constructs such as sensation, learning, emotion, and psychological disorders. Only one of the two courses PSYS 360 and PSYS 362 can be counted towards the Psychological Science major or minor, or the Neuroscience minor.

PSYS 362. BEHAVIORAL NEUROSCIENCE WITH LAB. (4) *Prerequisites / Corequisites: Major or minor in Psychological Sciences, or minor in Neuroscience; PSYS 210 / PSY 210 and PSYS 211 / PSY 211 with a grade of "C" or better, or permission of the instructor.* An examination of the neurological bases of major psychological constructs including lab-based activities such as dissections, physiological recordings and behavioral measures. Open only to psychological science minor / majors and Neuroscience minors. Only one of the two courses PSYS 360 and PSYS 362 can be counted towards the Psychological Science major or minor, or the Neuroscience minor. ***Course Fee***

PSYS 363. SENSORY AND PERCEPTUAL SYSTEMS. (3) *Prerequisites: Sophomore standing or permission of the instructor.* Examination of human / animal sensory and perceptual systems using neurophysiological and psychophysical methods. Examination of both subcortical and cortical brain functioning. Emphasizes the visual, tactile / haptic, and auditory systems.

PSYS 370. INDUSTRIAL / ORGANIZATIONAL PSYCHOLOGY. (3) *Prerequisite: Junior standing or permission of the instructor.* The application of psychological principles and research leadership, teamwork, work stress, and employee attitudes.

PSYS 380. PSYCHOLOGY AND SCIENCE FICTION. (3) *Prerequisite: Junior standing and PSYS/PSY 100, or permission of the instructor.* Examination of mind and behavior as portrayed in science fiction.

PSYS 413. PSYCHOLOGICAL MEASUREMENT. (3) *Prerequisites: PSYS or PSY 210 and 211, or permission of the instructor.* The consideration of methodological, theoretical, and ethical problems involved in test construction and use. Topics covered include reliability, validity, predictive efficiency, structure of human abilities, achievement tests, and projective techniques.

PSYS 423. PSYCHOLOGY OF ADULT LIFE AND AGING. (3) *Prerequisites: 21 hours of Foundations and Explorations Courses, or junior status or permission of the instructor.* Psychological processes in adulthood and aging. Emphasis on contemporary theories, methodological issues, and interactions of psychological, biological, social, and environmental factors in adulthood and aging. ***Colonnade K-SY***

PSYS 424. TOPICS IN DEVELOPMENTAL PSYCHOLOGY. (3) *Prerequisite: PSYS or PSY 220 or PSYS 321 and junior standing or permission of the instructor.* A consideration of special topics to acquaint students with theoretical and research issues of particular interest in developmental psychology. May be repeated for credit provided the topic differs.

PSYS 425. DEVELOPMENTAL PSYCHOPATHOLOGY. (3) *Prerequisite: PSYS 210 and PSYS 211 with grades of C or better, and PSYS 220 or PSYS 321 or PSYS 440, or permission of instructor.* Examines the interaction between the dynamic processes underlying both normative human development and the development of psychopathology. Theoretical and empirical research will be reviewed, focusing on the psychological science of the principles of adaptation and maladaptation.

PSYS 431. PSYCHOLOGY OF LANGUAGE. (3) *Prerequisites: PSYS or PSY 210 and PSYS or PSY 211 with a grade of "C" or better, and junior standing or permission of the instructor.* Overview of scientific study of human language abilities, with primary emphasis on individual psychological mechanisms.

PSYS 433. JUDGMENT AND DECISION MAKING. (3) *Prerequisites: PSYS or PSY 210 and PSYS or PSY 211 or permission of instructor.* Description and analysis of how actual decisions differ from optimal decisions. Survey of judgments under risk and uncertainty and of major topics in judgment research.

PSYS 440. ABNORMAL PSYCHOLOGY. (3) *Prerequisites: Six hours in psychological science and/or psychology, including PSYS or PSY 100, and junior standing or permission of instructor.* Introduction to abnormal psychology emphasizing forms of abnormal behavior, etiology, developmental factors, interpretations, behavioral manifestations and treatment programs. Equivalent to PSY 440.**PSYS 442. PSYCHOLOGY OF SUICIDE AND SELF-INJURY. (3)** *Prerequisite: Junior standing and a grade of C or better in PSYS 440, or permission of instructor.* Focuses on the study of self-harm behavior, specifically on suicide and self-injury. Topics include theories of suicide, risk and protective factors, assessing and managing suicide risk in clinical settings, treatment for suicidal patients, ethics, nonsuicidal self-injury, the neurobiology of suicide, and prevention and post-vention.

PSYS 450. PSYCHOLOGY OF PERSONALITY. (3) *Prerequisites: Six hours of psychological science and/or psychology, including PSYS or PSY 100 and junior standing or permission of instructor.* Overview of the major theoretical approaches to the study of personality, including historical as well as contemporary theorists, avenues of analysis, and concepts.

PSYS 451. PSYCHOLOGY OF RELIGION. (3) *Prerequisites: Nine hours of psychological science and/or psychology, including PSYS or PSY 100, and junior standing; or permission of the instructor. PSYS or PSY 210, 313, and PSYS 450 are preferred but not essential.* Classical theories and current research in the psychology of religion.

PSYS 453. PSYCHOLOGY OF WOMEN. (3) *Prerequisites: Six hours in psychological sciences and / or psychology, including PSYS or PSY 100, and junior standing.* Scientific study of the behavior and mental processes of girls and women. Topics include gender differences and similarities, inclusion of females in psychological research, psychological development of girls and women, sexuality, and mental health issues.

PSYS 462. NEUROSCIENCE OF LEARNING AND MEMORY. (3) *Prerequisites: PSYS 210 and PSYS 211 with a "C" or better or permission of the instructor.* Introduction to the neural basis of learning and memory. Topics include cellular and molecular mechanisms of learning and memory, neural substrates of different learning and memory systems, impairment of learning and memory tied to brain disorders.

PSYS 463. EVOLUTIONARY PSYCHOLOGY. (3) *Prerequisites: PSYS or PSY 100 or PSYS 160 and junior standing or permission of the instructor.* A survey of the research methods and core concepts of evolutionary psychology as they apply to human adaptive problems, including problems of survival, sex and mating, parenting and kinship, and aggression.

PSYS 465. PSYCHOPHARMACOLOGY. (3) *Prerequisites: Junior standing or permission of the instructor.* Examination of psychoactive drugs and their affects upon the brain and neural mechanisms responsible for mind and behavior.

PSYS 473. TRAINING IN BUSINESS AND INDUSTRY. (3) *Prerequisite: MGT 311 or PSYS 370 or permission of the instructor.* An introduction of theories, research, and methods of training needs analysis, program design, implementation, and evaluation. Equivalent to MGT 473.

PSYS 481. HISTORY OF PSYCHOLOGY. (3) Prerequisites: Nine hours in Psychology, including PSY 100 or PSYS 100 and junior standing or permission of the instructor. Overview of major historical developments in psychology and related scientific disciplines, such as medicine, neurophysiology, and physics. Emphasizes developments over the past 500 years. History of the scientific study of human/animal behavior, as well as cognitive, perceptual, and mental functioning. Equivalent to PSY 481.

PSYS 482. PSYCHOLOGY OF SEXUALITY. (3) *Prerequisite: PSYS or PSY 100 or PSYS or PSY 220; 21 hours of Foundations and Explorations Courses, or junior status.* Explores psychological, social, emotional, spiritual and cultural aspects of sexuality including sexual development across the life span, consensual and coercive sexual behavior, sex and gender, sexual orientation, sexuality and religious traditions, and sexuality education. ***Colonnade K-SY***

PSYS 490.INDEPENDENT STUDY IN PSYCHOLOGICAL SCIENCES. (1-3) *Prerequisites: PSYS 100 / PSY 100, junior standing, and permission of the faculty project supervisor.* Advanced students will conduct research and /or readings in psychological sciences under the direction of the faculty. The course may be repeated. No more than six credits will count toward completion of the extended option of the psychological science major, and no more than three credit hours will count toward completion of the non-extended option of the major or the psychological science minor.

PSYS 499. SENIOR SEMINAR IN PSYCHOLOGY. (3) *Prerequisites: 12 hours in psychology, including PSY 100 / PSYS 100, and senior level classification.* Seminar in which major concepts and issues in psychology are considered. Directed reading, guest lectures, field trips, and / or oral reports by students are utilized. Equivalent to PSY 499.

RE – Real Estate
School of Professional Studies

RE 170C. ESSENTIALS OF REAL ESTATE. (3) *This course is a prerequisite to ALL 100 and 200 level Real Estate courses.* A course designed to introduce the student to the economic, social, environmental, governmental and legal setting of real estate in the United States. The unique aspects of real estate as a commodity, an investment medium, and a provider of shelter are discussed. The course explores the many career areas in the real estate industry as well as the informational needs of the homeowner.

RE 171C. REAL ESTATE BROKERAGE OPERATION. (3) *Prerequisite: RE 170C.* A course designed to teach the theory and mechanics of real estate brokerage operations. The preparation of the many contracts used in real property transactions is covered. Proficiency is developed in preparing and executing closing statements, applying the fundamentals of advertising and salesmanship to real estate, and understanding the ethical responsibilities of market participants.

RE 172C. REAL ESTATE MARKETING. (3) *Prerequisite: RE 170C.* Both the theory and practices of real estate market analysis are covered. Market trends and opportunities are studied within the context of the legal, political, physical, aesthetic and ethical constraints and alternatives faced. A variety of approaches are studied including land use, cost benefits, economic base, input, output, compatibility, highest and best use, and property productivity studies.

RE 272C. REAL ESTATE FINANCE. (3) *Prerequisite: RE 170C.* This course examines the various methods of financing real estate transactions from the point of view of lenders, developers, builders, speculators and owners. The institutional structure within which they operate as well as the decision processes of these parties as they choose the form of business entity and negotiate terms and conditions in order to achieve yield objectives within the constraints of acceptable risk levels are studied.

RE 273C. REAL ESTATE LAW. (3) *Prerequisite: RE 170C.* Examines the legal aspects of the real estate business, including brokerage, legal real estate instruments, contracts, and obligations.

RE 274C. REAL ESTATE APPRAISALS. (3) *Prerequisite: RE 170C.* This course is designed to introduce the student to the theory and practice of real property valuation. Students will be required to complete a demonstration appraisal report on a residential property. Basic concepts in income capitalization are also studied.

RE 275C. PROPERTY MANAGEMENT. (3) *Prerequisites: RE 170C and 172C.* The theory and techniques of real estate resource utilization. Specific applications to various types of property are presented. Topics such as tenant selection, maintenance, landlord-tenant relations, credit and collections, and lease negotiation techniques are included.

RE 276C. REAL ESTATE INVESTMENT ANALYSIS AND MANAGEMENT. (3) *Prerequisites: RE 170C, 172C, and 272C.* Application of investment principles and analytical techniques to real property. This course concentrates upon the determination of the financial feasibility of realty investments and the effects of financing, income taxes, and entity selection upon investment profitability. Concepts of individual and corporate portfolio management are included.

RE 278C. INTERNSHIP-REAL ESTATE. (3) *Prerequisite: Permission of program advisor.* A structured internship to provide the advanced student with a practical working learning experience.

RE 280C. ADVANCED REAL ESTATE APPRAISAL. (3) *Prerequisites: RE 170C and 274C.* Principles of income property valuation and analysis of the equity position in real estate investment. Cash-flow analysis, mortgage-equity analysis, the impact of debt restructuring or refinancing, and property sale on value are studied.

RE 281C. LAND DEVELOPMENT PROCESS. (3) *Prerequisites: RE 170C, 172C, 272C and 276C.* The development process within the constraints imposed at various levels of government is viewed. The student is taken through the process from idea to post design evaluation. Elements of cost effective and creative land use, design standards, building arrangements, parking and street design are studied.

REC– Recreation
School of Kinesiology, Recreation, and Sport (REC)

REC 200. RECREATION IN SOCIETY. (3) Introduces the student to recreation, parks and leisure history, philosophical concepts, and trends with attention to recreation sectors and employment opportunities. ***Colonnade E-SB | SB***

REC 220. UNDERSTANDING THE NONPROFIT SECTOR. (3) Survey of nonprofit organizations emphasizing: history, ethics, personnel and volunteer management, human development, program development, risk management, customer service, and career development.

REC 222. RECREATION ACTIVITY FACILITATION. (3) Materials and techniques for planning, implementing, leading and evaluating recreation activities for groups of various sizes, ages and abilities in a variety of social recreation and leisure settings.

REC 235. OUTDOOR RECREATION ACTIVITIES. (3) To acquaint the student with basic outdoor recreation activities and related environmental practices. A variety of outdoor experiences are conducted in classroom and laboratory settings. Environmental values and impact considerations of outdoor experiences are emphasized throughout the course.

REC 302. RECREATION LEADERSHIP. (3) Leadership in recreation with emphasis placed on history, theory, decision-making, group management, communication and motivation. Course will facilitate leadership experiences.

REC 304. TECHNOLOGY IN EVALUATION. (3) Utilization of technology and computer software to assist with creating instruments, analyzing data, and reporting results from recreation needs assessments and program evaluation.

REC 306. EXPERIENCE PLANNING AND EVALUATION. (3) Methodologies, skills and materials needed for designing, planning, implementing and evaluating meaningful experiences and programs for diverse populations in multiple settings. Includes the application of concepts and theories and an exploration of recreation and experience industry trends.

REC 320. PROFESSIONAL DEVELOPMENT IN RECREATION. (3) *Prerequisite: REC 200.* Career development, current problems, trends and issues in recreation services.

REC 326. CHURCH RECREATION. (3) Recreation programming in religious organizations with emphasis placed on recreation delivery systems, event scheduling, interest and talent surveys, church facilities and church recreation committees.

REC 328. INCLUSIVE RECREATION. (3) Application of outcome-based recreational experience development, which embraces personal and cultural dimensions of diversity. Emphasis on facilitating programs for individuals who have differing physical and mental abilities, ages, genders, ethnicities, and cultural values.

REC 330. FOUNDATIONS OF OUTDOOR RECREATION. (3) Outdoor recreation programming and resources including relevant history, philosophy, legislation, geographic factors, land use, standards, agencies and economics.

REC 332. OUTDOOR EDUCATION. (3) Multi-use natural resource management concepts, issues in resource management and the synthesis of concept and practical knowledge into real and simulated applications of land use and environmental problems related to the leisure service industry. Field trips required.

REC 335. OUTDOOR SKILLS-LAND. (3) Skill development in outdoor recreation land-based activities (camping, land navigation and backpacking) and related environmental practices. Overnight field trips required. Students are responsible for their own transportation to off-campus meetings. University transportation provided when possible.

REC 337. OUTDOOR SKILLS-WATER. (3) Skill development in outdoor recreation water-based activities (canoeing and kayaking) and related environmental practices. Focuses on outdoor leadership development. Overnight, multi- day camping required. Students are responsible for their own transportation to off-campus meetings. University transportation provided when possible.

REC 338. PARKS, RECREATION, AND QUALITY OF LIFE. (3) An interdisciplinary approach to studying the relationship between access to parks and other natural environments, recreation, and quality of life. Investigates issues of responsibility, conservation, wellness, and social equity in a variety of local and global contexts. Students may be responsible for travel to off-campus locations.

REC 402. FISCAL PRACTICES IN RECREATION. (3) Financial principles and practices relevant in recreation settings. Topics include economic principles, financial management and organization, income sources, fundraising, pricing and budgeting.

REC 404. RECREATION FACILITY MANAGEMENT. (3) A practical orientation to management for a variety of recreation facilities.

REC 406. RECREATION ADMINISTRATION. (3) Recreation administration with emphasis on personnel, planning, facilities, legal issues and public relations.

REC 420. RECREATION AND TOURISM. (3) A focused examination of recreation and tourism with particular attention to business principles, trends, and job opportunities. The relationships between recreation, events, and tourism serves as a key framework.

REC 422. CAMPUS RECREATION. (3) Campus recreation administration with emphasis on facility management and program delivery formats including recreational sports, fitness, wellness, outdoor adventure and university center programs. Field experience is required.

REC 424. CAMP AND RETREAT CENTER ADMINISTRATION. (3) Organization and administration of camp and retreat center programs and facilities including history, trends, staffing, client needs, finance, marketing, and legal issues.

REC 426. FACILITY PLANNING AND DESIGN. (3) Facility planning and design process with emphasis on the unique features of many different areas and types of facilities. Field experiences required. Students are responsible for their own transportation to off campus meetings. University transportation provided when possible.

REC 428. COMMUNITY CENTERS AND PLAYGROUNDS. (3) An intensive investigation of playground and community center operations.

REC 430. RECREATION RESOURCE MANAGEMENT. (3) Multi-use natural resource management concepts, issues in resource management and the synthesis of concepts, and practical knowledge into real and simulated applications of land use and environmental problems related to the leisure service industry. Field trips required. Students are responsible for their own transportation to off-campus meetings. University transportation provided when possible.

REC 434. RESOURCE INTERPRETATION. (3) Explores interpretive approaches to natural, cultural, and historical resources in leisure settings. Principles, philosophies, and techniques of resource interpretation are studied. Emphasizes practice and development of presentation skills. Includes design of interpretive products potentially including, but not limited to, exhibits, media, and brochures. Students are responsible for their own transportation to off-campus meetings.

REC 435. OUTDOOR EXPERIENCE PLANNING. (3) Principles and techniques for planning, designing, implementing and evaluating outdoor trips and experiences. Students will need to provide transportation for off-campus meetings.

REC 437. OUTDOOR LEADERSHIP EXPEDITION. (3) *Prerequisites: REC 335, 337, 435 or instructor's permission. May be corequisite.* Outdoor Leadership capstone course involving a back country expedition, leadership development and teaching techniques. Successful students will receive the Wilderness Education Association Outdoor Leader Certification. Overnight extended field trips required. Students are responsible for their own transportation to off-campus meetings. University transportation provided when possible. ***Course Fee***

REC 439. CHALLENGE COURSE FACILITATION. (3) *Prerequisite: Junior standing or instructor's permission.* Understanding and applying experiential education theory in individual and group settings. Focus is on designing and facilitating safe and effective low and high challenge course experiences that incorporate personal growth, critical reflection, and skills in problem-solving, decision-making, and teambuilding. Recommended industry standards are followed. Field experience required. Students are responsible for their own transportation to off campus meetings. ***Course Fee***

REC 460. GRANT WRITING FOR NONPROFIT ORGANIZATIONS. (3) *Prerequisite: ENG 300 or appropriate equivalent.* Thorough investigation of the grant writing process and the application of related skills. Includes how to research, identify, plan, organize, write and submit grants.

REC 480. TRAVEL-BASED LEARNING IN RECREATION AND TOURISM. (1-3) *Prerequisite: Permission of Instructor.* Experiential exploration of recreation and tourism topics taught in a travel-based learning environment (international or domestic location).

REC 482. RECREATION WORKSHOP. (1-3) A study of special areas relating to the recreational profession. May be experimental in nature or may follow a traditional class format. Field experiences and / or study at extended campus locations are usually required.

REC 484. ADVANCED STUDIES IN RECREATION. (3) *Prerequisite: Permission of instructor.* Specific and detailed analysis of issues in recreation. Incorporates individualized instruction between student and faculty.

REC 490. INTERNSHIP IN RECREATION. (3-12) *Prerequisites: REC 402,404, 406, and permission of instructor.* Experience in recreation planning, leadership, supervision, and program evaluation through work in recreation, park, and other leisure oriented settings. This in-service experience is supervised and controlled by the University faculty members and personnel from area recreation agencies.

REC 493. RECREATION PRACTICUM. (3) *Prerequisites: Junior or senior standing and instructor permission.* Cooperative field experiences in approved recreation settings where students obtain professional administrative and / or programming experience with agency and faculty supervision. This course may require off-campus travel. Repeatable up to 6 hours of credit.

REC 494. NONPROFIT ADMINISTRATION CONFERENCE. (1) *Prerequisites: REC 220 and instructor's permission.* Focuses on developing nonprofit professionals. Conference activities such as workshops, case studies, speakers, and a career fair facilitate networking with students and nonprofit executives. This course requires off-campus travel. Students are responsible for conference and travel costs.

REC 496. NONPROFIT INTERNSHIP. (3-6) *Prerequisite: 12 hours of minor coursework or instructor's permission.* A cooperative field experience in an approved nonprofit setting where the student obtains pre-professional administrative and / or programming experience with agency and faculty supervision. This course requires off-campus travel.

RELS– Religious Studies
Department of Philosophy and Religion (RELS)

RELS 100. THE NEW TESTAMENT. (3) An introduction to the historical, literary, and cultural approaches to the New Testament with a view toward understanding and interpretation. ***Colonnade E-AH | AH***

RELS 101. THE OLD TESTAMENT/ HEBREW SCRIPTURES. (3) An introduction to the historical, literary, and cultural approaches to the Hebrew Bible (Old Testament) with a view toward understanding and interpretation. ***Colonnade E-AH | AH***

RELS 102. WORLD RELIGIONS. (3) An introduction to the study of religion from Western and non-Western cultures. The course surveys and critiques definitions of religion and examines topics such as the historical, social, psychological, and ethical implications of a number of religious traditions. ***Colonnade E-AH | AH***

RELS 103. RELIGIONS OF ASIA. (3) Introduction to the history, doctrines, and practices of the major religions of India, China and Japan.

RELS 150. ELEMENTAY LATIN. (3)

RELS 151. ELEMENTARY LATIN (CONTINUED). (3) ***Fulfills World Language with a grade of C or better.***

RELS 152. BIBLICAL LANGUAGES I: INTRODUCTORY HEBREW. (3) A study of the vocabulary, grammar, and syntax of Biblical Hebrew. Equivalent to BLNG 152.

RELS 153. BIBLICAL LANGUAGES II: INTERMEDIATE HEBREW. (3) *Prerequisite: RELS 152.* Further development of an understanding of the fundamentals of the Hebrew language with special attention to the reading of selected portions of the Old Testament. Equivalent to BLNG 153. ***Fulfills World Language with a grade of C or better.***

RELS 154. BIBLICAL LANGUAGES III: INTRODUCTORY GREEK. (3) A study of the vocabulary, grammar, and syntax of Koine Greek. Equivalent to BLNG154.

RELS 155. BIBLICAL LANGUAGES IV: INTERMEDIATE GREEK. (3) *Prerequisite: RELS154.* Further development of an understanding of Koine Greek with readings in the New Testament and Hellenistic literature. Equivalent to BLNG 155. ***Fulfills World Language with a grade of C or better.***

RELS 156. INTRODUCTORY PALI I. (3) A study of the grammar, syntax, and vocabulary of the Pali language with a stress on reading primary textual material from a variety of Pali sources. May be taken as a RELS elective.

RELS 157. PALI II. (3) Further study of the grammar, syntax, and vocabulary of the Pali language with a stress on reading a wide variety of canonical, commentarial, and post-canonical texts. May be taken as a RELS elective. ***Fulfills World Language with a grade of C or better.***

RELS 200. WORLD RELIGIOUS LITERATURE. (3) *Prerequisite: ENG 100.* Introductory study of multiple genres of religious literature or literature with strong religious themes. Texts come from various religions, cultures, and time periods. ***Colonnade F-AH | AH***

RELS 202. RACIAL JUSTICE. (3) An examination of (1) the major perspective that came together to form the civil rights movement of the 1950's and 1960's; (2) the accomplishments and failures of that movement; and (3) the issues of racial justice that remain today. Equivalent to PHIL 202.

RELS 211. JESUS IN FILM. (3) A study of the production and reception of films about Jesus, similarities and differences with canonical and extracanonical Gospels, and popular and critical reactions. ***Colonnade K-SC***

RELS 222. CHRISTIANS, JEWS, AND PAGANS IN THE GRECO-ROMAN WORLD. (3) *Prerequisite: 21 hours of Foundations or Explorations Courses, or junior status.* A study of debates among ancient pagans, Jews, and Christians by engaging texts written by each group in defense of themselves and in opposition to each other. ***Colonnade K-SC***

RELS 242. MEANINGS OF LIFE: ATHEISM TO ZEN. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status. Survey* of global theories on the meaning of life. ***Colonnade K-LG***

RELS 300. THE LIFE OF JESUS. (3) An investigation of the nature, content, and major interpretations of the sources for the life and teachings of Jesus.

RELS 301. LIFE AND TEACHINGS OF PAUL. (3) A study of the life and thought of Paul in its historical and cultural setting; concentration on the principal themes in Pauline thought which have been influential in Christian tradition.

RELS 302. BUDDHISM. (3) Introduction to the history, fundamental doctrines, and practices of the three main Buddhist traditions (Theravada, Mahayana, Vajrayana) in their global contexts.

RELS 303. HINDUISM. (3) A study of the central beliefs, ethical practices, symbols, and institutions of the Hindu traditions, examining patterns of their unity, diversity, and encounter with modernity.

RELS 304. JUDAISM. (3) A survey of Jewish religious traditions, Jewish history and literature from the Greco-Roman period to the present.

RELS 305. CHRISTIANITY. (3) Overview of ideas drawn from the history of Christianity, including major intellectual developments behind its global character. ***Colonnade K-SC.***

RELS 306. ISLAM. (3) Terminology, history, social institutions, beliefs, rituals, ethical systems, and world views associated with the religious tradition of Islam. Examination of the West's views of Islam and Islamic views of the West.

RELS 309. GLOBAL CHRISTIANITY. (3) The study of Christianity in Africa, Asia and Latin America.

RELS 311. THE QUR'AN. (3) An introduction to the Qur'an and its contemporary and historical roles in the lives of Muslims as well as in their societies and cultures.

RELS 312. ANCIENT NEAR EAST TEXTS. (3) The course surveys a broad number of ancient Mesopotamian and other Western Asian genres of literature which shed light upon the literary remains of Israel found in the Hebrew Scriptures. Included are cosmologies, cosmogonies, flood narratives, prophecies, historical annals which deal with the kings of Israel and Judah, wisdom literature, theodicy, omen texts and others.

RELS 313. ISLAMIC TEXTS AND LITERATURE. (3) An exploration of Islamic texts and literature, including the Qur'an, hadith, poetry, and fiction.

RELS 314. THE MAKING OF THE BIBLE. (3) An investigation into the material, historical, and political processes behind the making of the Jewish and Christian Bibles in antiquity by engaging the Scriptures excluded from the canon as well as early synagogue and church leaders' arguments concerning canonicity.

RELS 315. PHILOSOPHY OF RELIGION. (3) *Prerequisite: One course in philosophy or religious studies.* A systematic study of such problems as the nature and existence of God, the relation of faith and reason, human nature and destiny, immortality, evil, and the problem of religious language. Equivalent to PHIL 315.

RELS 317. CONFUCIANISM. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* A survey of the evolution of Chinese Confucian thought, from the ethical and ritual considerations of Confucius, through the scholastic self-cultivation of Zhu Xi, to the ecological and gender concerns of modern New Confucians. ***Colonnade K-SY***

RELS 318. DAOISM. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Survey of classical texts of Daoism, including an examination of the role of these texts in the development ***Colonnade K-SC***

RELS 320. RELIGIONS OF THE MIDDLE EAST. (3) A thematic study of Judaism, Eastern Christianity, and Islam as these religions are practiced in Middle Eastern societies today. There is a focus on the concept of sacred place and on the ways in which this concept links the ancient past of the tradition with its modern expression.

RELS 322. ISLAM AND PILGRIMMAGE. (3) An exploration of Islamic pilgrimage, including the use of technology in modern pilgrimage practices. ***Colonnade K-LG***

RELS 323. SOCIAL ETHICS. (3) *Prerequisite: One course in Religious Studies or Philosophy or junior status.* Perspectives and issues involved in the public pursuit of justice in a religiously and philosophically diverse society. One short field trip. Equivalent to PHIL 323.

RELS 324. CHRISTIANITY IN AFRICA. (3) The development of Christianity in Africa from the first century to the present, with special emphasis on the post-colonial period.

RELS 325. RELIGION IN CONTEMPORARY AMERICA. (3) A study of the ways religion is understood and expressed by varying segments of American society.

RELS 326. SECOND TEMPLE JUDAISM. (3) Introduction to the history, literature, and religion of the Jewish people from the beginning of the Persian period (mid-6th c. B.C.) to the Bar Kokhba Revolt (132-135 A.D.)

RELS 330. RELIGION IN THE AMERICAN SOUTH. (3) Survey of the religious cultures of the American South from the colonial period to the present. The course will look at a variety of religious expressions in institutional life, thought, literature, and music.

RELS 331. ISLAM IN AMERICA. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. An exploration of Islam in America beginning with the 16th century and continuing to the present day. ***Colonnade K-SC***

RELS 333. WOMEN AND RELIGION. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. The examination of primary and secondary sources on women's contributions to western and non-western religious thought. ***Colonnade K-SC***

RELS 341. RELIGION AND THE ENVIRONMENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Examines different world religions' beliefs about the environment as well as their adherents' attitudes and actions concerning the environment, climate change and other problems of planetary life today. ***Colonnade K-SC***

RELS 399. STUDY ABROAD. (3) Supervised study of religion in a study abroad program. May be repeated for different study abroad locations.

RELS 401. RELIGIOUS STUDIES SEMINAR. (3) *Prerequisite: One course in religious studies or permission of instructor.* A seminar with rotating topics designed primarily for advanced students in religious studies. May be repeated for different topics.

RELS 426. THE DEAD SEA SCROLLS. (3) *Prerequisite: One course in Religious Studies.* Introduction to the discovery, authentication, contents, and main ideas of the Dead Sea Scrolls; the community that produced them; the controversies that have surrounded them; and the archaeology of the nearby ruins.

RELS 430. CHRISTIANITY TO 1517. (3) *Prerequisite: One course in religious studies or permission of instructor.* An investigation of the development of Christian thought and institutions from the first century of the Church until the Reformation.

RELS 431. CHRISTIANITY FROM 1517 TO THE PRESENT. (3) *Prerequisite: One course in religious studies or permission of instructor.* An investigation of the development of Christian thought and institutions from the beginning of the Reformation to the present.

RELS 496. SENIOR SEMINAR. (1) *Prerequisites: Senior standing and major in the department or consent of the instructor.* A capstone course designed for senior religious studies majors. Students will complete projects that demonstrate their research, writing, and analytical skills.

RELS 499. RESEARCH IN RELIGIOUS STUDIES. (3) *Prerequisite: Open only to religion majors with a 3.0 grade point average in their senior year.* Directed study and research in one area of religious studies.

RUSS – RUSSIAN
DEPARTMENT OF MODERN LANGUAGES

RUSS 101. ELEMENTARY RUSSIAN I. (3) A beginning course designed to teach the four language skills of understanding, speaking, reading and writing, with emphasis on understanding and speaking.

RUSS 102. ELEMENTARY RUSSIAN II. (3) *Prerequisite: RUSS 101 or one year of high school Russian.* Further development of the four language skills. ***Course Fee | Fulfills World Language with a grade of C or better.***

RUSS 201. INTERMEDIATE RUSSIAN I. (3) *Prerequisite: RUSS 102.* Expansion of communication skills in increasingly complex and varied situations. Emphasis on conversational speaking, presentational writing and speaking, and understanding culturally specific texts and media. ***Fulfills World Language with a grade of C or better.***

RUSS 202. INTERMEDIATE RUSSIAN II. (3) *Prerequisite: RUSS 201 or equivalent.* Continued expansion or interpersonal communication skills at the intermediate level. Emphasis on increasing comprehension, the building of vocabulary, and on presentational modes of speaking and writing. ***Fulfills World Language with a grade of C or better.***

SEC– SECONDARY EDUCATION
SCHOOL OF TEACHER EDUCATION

SEC 350. CLINICAL PRACTICES IN SECONDARY TEACHING I. (8) *Prerequisites: EDU 250 or MGE 275 and PSY 310.* Develop a working knowledge of planning, implementation of instruction, assessment, diversity, and classroom climate for a secondary student population. Clinical experiences are required.

SEC 351. TEACHING STRATEGIES FOR SECONDARY SCHOOLS. (3) *Prerequisites: EDU 250 or MGE 275 and PSY 310.* Designed to develop a working knowledge of planning, implementation of instruction, assessment, and classroom climate for a student population. Field experiences in public schools are required for this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 352. PLANNING FOR STUDENT DIVERSITY. (3) *Prerequisites: EDU 250 or MGE 275 and PSY 310. Prerequisite or Corequisite: SEC 351.*Designed to apply students' knowledge of teaching strategies and assessment in diverse learning environments. Field experiences in public schools are required. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 450. CLINICAL PRACTICES IN SECONDARY TEACHING II. (1) *Prerequisites: EDU 350; Corequisite: LTCY 421 and appropriate content methods courses (e.g. SEC 475, SEC 481).* Develop an advanced knowledge of planning, implementation of instruction, assessment, diversity, and classroom climate for a secondary student population. Clinical experiences are required.

SEC 453. MANAGEMENT OF INSTRUCTION. (3) *Prerequisites: Must be admitted to the Teacher Education Program. EDU 250, PSY 310, (SEC 351, SEC 352 or SPED 330) with a grade of "C" or higher. Prerequisite or Corequisite: Methods course.* Designed to expand and refine the abilities of preservice teachers to create and maintain a positive learning environment, and to implement and manage instruction for diverse student populations. Field experiences in public schools are required. Students are responsible for their own transportation to designated or assigned sites.

SEC 473. TEACHING BUSINESS EDUCATION. (3) *Prerequisites: Senior standing and instructor permission. Corequisite: BE 486.* Develops the skills, procedures, and strategies for teaching Business and Marketing education in the middle and secondary school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 474. TEACHING FOREIGN LANGUAGE. (3) *Prerequisites: EDU 250, SPED 330, SEC 351, and PSY 310. Recommended Corequisite: SEC 453.* Develops skills, procedures, and strategies for teaching foreign language in middle and secondary schools. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to MLNG 474.

SEC 475. TEACHING LANGUAGE ARTS. (3) *Prerequisites: EDU 250, SEC 351, SEC 352, PSY 310, ENG 304 and ENG 410. Recommended Corequisite: SEC 453.* Develops skills, curriculum, and strategies for teaching English in secondary schools. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 477. TEACHING MATHEMATICS. (3) *Prerequisites: EDU 250, SEC 351, SEC 352, and PSY 310. Recommended Corequisite: SEC 453.* Develops the skills, procedures, and strategies for teaching mathematics in the secondary school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 478. TEACHING PHYSICAL EDUCATION. (3) *Prerequisites: EDU 250, PSY 310, SPED 330, and SEC 351. Recommended Corequisite: SEC 453.* Develops the skills, procedures, and strategies for teaching physical education in the secondary school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 479. TEACHING SCIENCE. (3) *Prerequisites: EDU 250, SEC 351, SEC 352, and PSY 310. Recommended Corequisite: SEC 453.* Develops the skills, procedures, and strategies for teaching science in secondary schools. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to MGE 479.

SEC 481. TEACHING SOCIAL STUDIES. (3) *Prerequisites: EDU 250, SEC 351, SEC 352 and PSY 310. Recommended Corequisite: SEC 453.* Develops skills, procedures, and strategies for teaching social studies in secondary schools. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. Equivalent to MGE 481.

SEC 483. TEACHING HEALTH. (3) *Prerequisites: EDU 250, PSY 310, SPED 330, and SEC 351. Recommended Corequisite: SEC 453.* Develops skills, procedures, and strategies for teaching health in the secondary school. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SEC 490. STUDENT TEACHING. (5-10) *Prerequisites: Admission to Teacher Education and admission to student teaching. Corequisite: EDU 489.* Supervised assignment in approved school setting. Must complete a minimum of sixteen weeks in one or two placements depending on certification requirements. Students follow the academic calendar of the school district in which they are placed and are responsible for providing their own transportation to assigned site(s). ***Course Fee***

SEC 491. LECTURE IN LIEU OF STUDENT TEACHING. (5) Seminar in current issues in teaching for certified teachers seeking additional endorsement. Director of student teaching approval required.

SFTY– SAFETY
DEPARTMENT OF ALLIED HEALTH

SFTY 271. EMERGENCY CARE AND TRANSPORTATION. (6) Students will learn how to evaluate, provide emergency care, and properly move and transport ill or injured people utilizing equipment available in an ambulance. Successful completion of this course and a skills evaluation leads to certification as an Emergency Medical Technician (EMT). ***Course Fee***

SFTY– SAFETY
DEPARTMENT OF PUBLIC HEALTH

SFTY 171. SAFETY AND FIRST AID. (1) The course is designed to prepare students to provide immediate and temporary care in emergency situations involving accidents or sudden illness. The symptoms and appropriate first aid for shock, wounds, heart problems, fractures, heat and cold injuries, poisons, and proper methods of transportation will be covered. The course is applicable to all students, especially those pursuing a teaching career where they will be responsible for other students entrusted to their supervision and care. ***Course Fee***

SFTY 270. GENERAL SAFETY. (3) Introduction to the history of safety in America. Examines steps involved in analyzing the causes and prevention of accidents. Emphasizes programs designed to educate the student in general safety concepts and principles, and an overview of statistical analysis, theories, and models used in hazard pre-planning and post-incident analysis and / or mitigation. Major topics include traffic, home, recreational, fire, and occupational safety.

SJB – SCHOOL OF JOURNALISM &BROADCASTING

SJB 101. UNDERSTANDING MEDIA CONTENT, ETHICS AND TECHNOLOGY. (3) Develops a framework to access, analyze, evaluate, and interact with content, audiences and technology in a variety of digital forms.

SJB 102. MEDIA CONTENT, COLLABORATION AND COMMUNITY. (3) *Prerequisite: Restricted to majors in the School of Journalism & Broadcasting.* Working in collaborative teams to produce digital content for distribution through various media channels including web, social, and mobile. Lecture and lab. ***Course Fee***

SJB 154. NEW MEDIA LITERACY: EXPLORATIONS IN PARTICIPATORY CULTURE. (3) Develops a framework to access, analyze, evaluate, create and interact with messages in a variety of digital forms, including social media. Restricted to majors / minors outside the School of Journalism & Broadcasting. ***Colonnade E-SB | SB***

SJB 210. SOFTWARE STUDIO FOR DESIGNERS. (3) An introduction to the industry standard software to edit photos, create logos/branding packages, illustrations and layouts for print and interactive media. Equivalent to AD 210. ***Course Fee***

SJB 241. VISUALIZING DATA IN JOURNALISM. (3) *Prerequisites: SJB 101 and SJB 102.* Learn to find and examine large sets of data to identify embedded trends and stories, and display this data visually. Lecture and lab. ***Course Fee***

SJB 310 MEDIA DIVERSITY. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Explores journalistic coverage of diversity in terms of race, culture, gender and sexual orientation including newspaper, radio, television, film, video games, digital media, advertising, and public relations. ***Colonnade K-SC***

SJB 330. INTERACTIVE DESIGN. (3) *Prerequisite: AD/SJB 210 with a grade of "C" or better or instructor permission.* Exploration into the design process and techniques for creating interactive experiences. Encompasses information architecture, usability, front-end programming, design literacy, as well as applied user-experience design. Equivalent to UX 330.

SJB 340. PROGRAMMING FOR MEDIA PLATFORMS. (3) *Prerequisite: AD/SJB 210 with a grade of "C" or better or permission of instructor.* Introduction to concepts, principles, and skills required to code and program media platforms. Explores modern markup languages and content management systems. No programming experience required. Equivalent to UX 340. ***Course Fee***

SJB 399. SPECIAL TOPICS IN MEDIA-STUDY ABROAD. (1-6) This course covers media and cultural study and practical journalism experiential learning in international or out-of-town locations. This course may be repeated one time, but no more that 3 total hours may be included in the major or minor portion of the degree program

SJB 402. FIRST ADMENDMENT RESEARCH AND REPORTING. (3) *Prerequisite: Permission of instructor.* A practical, hands-on alternative capstone course that brings together skills learned throughout the student's academic career to provide an opportunity to work within a team concept and to produce a series of stories related to First Amendment issues.

SJB 421. AMERICAN PRESS HISTORY. (3) Major events and personalities in the development of print and electronic journalism, advertising and public relations from Gutenberg to the present, with future projections. Includes consideration of involvement of minorities and women. Analysis of contemporary journalism in the context of its history.

SMED – Science and Mathematics Education
School of Teacher Education

SMED 101. STEP 1: INTRODUCTION TO INQUIRY-BASED APPROACHES TO TEACHING. (1-1.5) Introduction to theory and practice necessary to design and deliver high quality inquiry-based math and science instruction. Students explore and practice the guided inquiry process, create lesson plans and implement them during visits to elementary classrooms. Fieldwork required; students are responsible for arranging their own transportation to sites. ***Course Fee | Colonnade E-SB | SB***

SMED 102. STEP 2: INTRODUCTION TO INQUIRY-BASED LESSON DESIGN. (2-3) Further exploration of inquiry-based learning experiences, developing skills designing, teaching, analyzing, and assessing inquiry-based math and science lessons. Students design lesson plans and implement them during visits to middle school classrooms. Fieldwork required; students are responsible for arranging their own transportation to sites. ***Course Fee | Colonnade E-SB | SB***

SMED 300. MIDDLE GRADES SCIENCE SKILLS AND METHODS. (3) *Prerequisites: MATH 117, nine hours of science, admission to teacher education.* Laboratory-based introduction to the science skills and methods needed by middle school teachers.

SMED 301. DESIGNING AND TEACHING INQUIRY-BASED MATHEMATICS AND SCIENCE UNITS. (3) *Prerequisites: Sophomore standing and nine hours of math / science coursework.* Develops students' skills in designing, teaching, analyzing, and assessing inquiry-based math and science lessons and units within multiple and diverse field experiences. Fieldwork required; students are responsible for arranging their own transportation to sites. ***Course Fee***

SMED 310. KNOWING AND LEARNING IN MATHEMATICS AND SCIENCE. (3) *Prerequisites: SMED 101 and SMED 102 with a "C" or better; or SMED 101 with a "B" or better and sophomore status.* Introduction to theories and principles of cognition and learning with emphasis on knowing and learning in math and science. Introduction to research on learning, memory, individual development, motivation and intelligence. Applications of learning theory will be explicitly tied to design of lesson plans, instruction and assessment. ***Course Fee***

SMED 320. CLASSROOM INTERACTIONS. (3) *Prerequisite: Successful completion of SMED 310.* Designed to expand students' abilities to understand how learning theories are applied in instructional settings as students develop, implement and evaluate activities and strategies for teaching diverse students equitably. Fieldwork required; students are responsible for arranging their own transportation to sites. ***Course Fee***

SMED 340. PERSPECTIVES ON MATHEMATICS AND SCIENCE. (3) *Prerequisite: Successful completion of SMED 310.* Introduction to the historical, social, and philosophical implications of math and science through investigations of pivotal experiments and findings. Includes integrated laboratory experiences that replicate significant discoveries. ***Course Fee***

SMED 360. RESEARCH METHODS FOR MATH AND SCIENCE TEACHERS. (3) *Prerequisite: Successful completion of SMED 310.* Laboratory-based introduction to the tools and techniques used by scientists and mathematicians to further an understanding of the natural world and application of this knowledge to math and science education. Students will design and carry out laboratory investigations, and present written and oral reports of results. ***Course Fee***

SMED 400. APPLYING MIDDLE GRADE SCIENCE ACROSS DISCIPLINES. (3) *Prerequisites: SMED 300 and 15 hours of science.* Introduction to the knowledge and skills needed to create middle grades science lessons that incorporate content and real-world examples from different disciplines.

SMED 470. PROJECT-BASED INSTRUCTION. (3) *Prerequisite: SMED 320.* Methods, techniques, and technologies used to implement and assess problem-based investigations in math and science classrooms. Fieldwork required; students are responsible for arranging their own transportation to sites. ***Course Fee***

SMED 489. SMED STUDENT TEACHING SEMINAR. (3) *Prerequisite: Approved for admission to student teaching. Corequisite: MGE 490 or SEC 490.* Provides a bridge between the theory and practice of math and science teaching. Methods, techniques, technologies and issues pertinent to math and science instruction in middle grade and secondary classrooms. Field experiences in public schools and/or other appropriate settings away from campus are required. Pre-Service Teachers are responsible for their own transportation to designated or assigned sites.

SOCL– Sociology
Department of Sociology (SOCL)

SOCL 100. INTRODUCTORY SOCIOLOGY. (3) Introduction to the basic concepts of society and culture, group behavior, population, class, minorities, community, social institutions and social changes. ***Colonnade E-SB | SB***

SOCL 210. INTERACTION: SELF IN SOCIETY. (3) Study of the individual in social context. Emphasis is on group, social, and cultural factors and their consequences for self-development, role perception, role performance and value orientation.

SOCL 220. MARRIAGE AND FAMILY. (3) *Prerequisites: SOCL 100 or consent of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Analysis of the family institution, its structure and function and the dynamics of social change in family interaction and organization. ***Colonnade K-SC***

SOCL 240. GLOBAL SOCIAL PROBLEMS. (3*) 21 hours of Foundations and Explorations Courses, or junior status.* Examines causes of and responses to critical social problems in different world regions, with a focus on the dimensions and impacts of globalizations. Diverse social theories area applied to interpret problems such as environmental degradation, AIDS, family violence, racism, migration, international poverty, and crime. ***Colonnade K-LG***

SOCL 245. SOCIOLOGY OF POPULAR CULTURE. (3) *Prerequisite: SOCL 100 or consent of instructor.* Investigation of various forms of popular culture, including television, film, music, fashion, sports, computers, and language from a sociological perspective.

SOCL 260. RACE AND ETHNIC RELATIONS. (3) *Prerequisite: SOCL 100.* Designed to acquaint students with the historical and contemporary experiences of racial and ethnic groups in America. Explores social class and gender variations in the experiences of these various groups.

SOCL 270. INTRODUCTION TO COMMUNITY, ENVIRONMENT, & DEVELOPMENT. (3) *Prerequisites: SOCL 100 or consent of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Examines the causes, dynamics, and consequences of socio-economic change for people, how they live in communities, and how they relate to the natural work. Survey course for "Community, Environment, & Development concentration. ***Colonnade K-LG***

SOCL 300. USING STATISTICS IN SOCIOLOGY. (3) *Prerequisite: MATH 109 or 116 or MATH 183 or equivalent.* Techniques of statistical description and elementary statistical inference as applied to social data.

SOCL 302. SOCIAL RESEARCH METHODS. (3) Use of the scientific method as applied to societies, institutions, and social interaction. Development of research questions, research ethics, criteria for establishing causality, methods of research design, measurement, sampling techniques, and methods of data collection such as survey design. It is recommended that students take an introductory level social science class before enrolling in SOCL 302.

SOCL 304. SOCIOLOGICAL THEORY: PERSPECTIVES ON SOCIETY. (3) *Prerequisite: Six hours of sociology.* Study of the leading developments of schools of sociological theory from Durkheim to the present.

SOCL 309. SOCIAL DEVIANCE. (3) Examines how social groups define certain behaviors, beliefs, and conditions as normative violations and the resulting stigmatization and sanctioning of norm violators. Topics include conceptual and theoretical issues, physical deviance, sexuality, and alcohol / drug use.

SOCL 310. BEHAVIOR IN SMALL GROUPS. (3) *Prerequisite: Six hours of sociology or consent of instructor.* The study of communication and interaction patterns within small groups, including analysis of power, status, cohesion, and leadership.

SOCL 312. COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS. (3) *Prerequisite: Six hours of sociology.* Analysis of collective behavior and social movements, focusing on individual participation and social consequences.

SOCL 322. RELIGION IN SOCIETY. (3) *Prerequisites: SOCL 100 or consent of instructor and 21 hours of Foundations and Explorations Courses, or junior status.* Study of the various forms and content of religious organizations and movements and the behavioral and attitudinal concomitants of religious affirmation. ***Colonnade K-SY***

SOCL 324. SOCIOLOGY OF SPORT. (3) *Prerequisite: SOCL 100 or consent of instructor.* An examination of the sociological perspective of sport as an institution. Particular emphasis is placed on the impact of sport on the individual, small groups, other institutions, and society.

SOCL 342. AGING IN SOCIETY. (3) *21 hours of Foundations and Explorations Courses, or junior status.* An analysis of the elderly and their position in society. Attention is directed to aging as it relates to various social institutions and to the social aspects of aging in contemporary American society. ***Colonnade K-SY***

SOCL 345. THE SOCIOLOGY OF POPULAR MUSIC. (3) *Prerequisite: SOCL 100 or consent of instructor.* A sociological examination of contemporary music. Focus is on the social organization of popular music performance, production and consumption.

SOCL 346. SPECIAL TOPICS. (3) *Prerequisite: SOCL 100.* Significant sociological topics, issues, or developments in the discipline of sociology. May be repeated with different topic.

SOCL 350. SYSTEMS OF SOCIAL INEQUALITY. (3) *Prerequisite: SOCL 100 or consent of instructor.* Analysis of social origins, development, and persistence of inequality as a human system present in all societies. Course covers systems of stratification in the US (class, race, gender, ethnicity, etc.) used to differentially distribute social rewards. Some sections require a service-learning project.

SOCL 352. TECHNOLOGY, WORK AND SOCIETY. (3) *Prerequisite: SOCL 100 or consent of instructor.* Analysis of technology's impact on work systems, relationships between work and society, and management-worker interaction in varied industrial settings.

SOCL 355. SOCIOLOGY OF GENDER. (3) *Prerequisite: SOCL 100 or consent of instructor.* Examination of the social construction of women's and men's roles in society and of the concepts of masculinity and femininity.

SOCL 359. SEXUALITY AND SOCIETY. (3) Sociological examination of issues, debates, and research on pornography, prostitution, sexual orientation, and sex and the law.

SOCL 360. THE COMMUNITY IN RURAL AND URBAN SETTINGS. (3) *Prerequisite: Six hours of sociology.* Study of the structure and function of community life and the process of balancing community needs and resources.

SOCL 362. SOCIAL INSTITUTIONS: RACE, CLASS, AND GENDER. (3) *Prerequisite: SOCL 100 or consent of instructor.* The five primary institutions (family, religion, economy, education and government) as they affect and are affected by race, class, and gender in America. Explores interrelationships among those institutions and between various racial and other groups.

SOCL 363. POPULATION, SOCIETY, AND DEVELOPMENT. (3) *Prerequisite: Students should have taken 21 hours of Colonnade Foundations and Explorations courses before enrolling.* Course examines population as a system, focusing on the causes and consequences of population size, growth or decline, composition, and distribution in the United States and other countries with an eye toward development. Emphasis is placed the interrelationship of system components (fertility, mortality and migration) as well as their relationship with other systems (e.g. social, economic, political, ecological). This course fulfills the Connections: Systems requirement of Colonnade. ***Colonnade K-SY***

SOCL 372. CAUSES AND CONSEQUENCES OF HUMAN-WILDLIFE CONFLICT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Global study of human-wildlife conflict and the varying ecological, social, economic, and cultural realities that influence this conflict. ***Colonnade K-LG***

SOCL 375. DIVERSITY IN AMERICAN SOCIETY. (3) *Prerequisite: SOCL 100 or consent of instructor.* Sociological analyses of ways societal institutions create and shape intergroup diversity. Focuses on the elements of social organization and their relationships to diversity.

SOCL 376. SOCIOLOGY OF GLOBALIZATION. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* Sociological analysis of causes, effects, and implications of the process by which people become more interconnected in different ways and across large distances. Within this framework, economic, cultural, environmental, political, and social issues will be examined. ***Colonnade K-LG***

SOCL 389. STIGMA AND SOCIETY. (3) Sociological examination of the conceptualization, types, consequences, and management of stigma. Course will cover associative stigma, stigma resistance, and reintegration.

SOCL 402. EVALUATION RESEARCH TECH. (3) *Prerequisites: SOCL 300 or 302 and 60 hours completed credit hours.* Study of the methods, techniques, and philosophical approaches used in conducting research to identify and evaluate social problems, programs, and policies.

SOCL 404. QUALITATIVE RESEARCH METHODS. (3) *Prerequisites: SOCL 100 and 60 completed hours.* Study of the methods and techniques used in qualitative sociological research. Topics include observational research, in-depth interviewing and discourse analysis.

SOCL 408. SURVEY APPLICATIONS. (3) *Prerequisites: SOCL 300 and 302 or their equivalent and consent of instructor. Course pass required.* Students will be involved in the design, conduct, analysis, and dissemination of an actual social survey research project.

SOCL 410. SOCIALIZATION: CHANGES THROUGH LIFE. (3) *Prerequisite: SOCL 100 and 60 completed credit hours.* Study of theories and research techniques in the area of socialization with summary of the findings dealing with changes over the life course.

SOCL 435. FAMILY VIOLENCE. (3) A sociological perspective on family violence in the United States, emphasizing child abuse and intimate partner violence. Research, theory, laws, treatment and prevention are analyzed.

SOCL 440. SOCIOLOGY OF HEALTH AND ILLNESS. (3) A comprehensive introduction to sociological factors in disease etiology and illness behavior; the organization and operation of health delivery systems; and the social interaction between organization administrators, health professionals and semi-professionals, patients, and the public.

SOCL 442. SOCIOLOGY RESEARCH PROJECT. (3) *Course pass required.*

SOCL 450. OCCUPATIONS AND PROFESSIONS. (3) *Prerequisite: SOCL 100 or consent of instructor.* Analysis of the meaning of trends in occupational activities and careers through investigation of various occupations and professions.

SOCL 452. SOCIAL CHANGE. (3) *Prerequisite: Nine hours of sociology or consent of instructor.* Examination of the nature and theories of social change and of the factors affecting it. Emphasis on the process of modernization and contemporary social changes.

SOCL 455. THEORY AND PRACTICE OF COMMUNITY DEVELOPMENT. (3) *Prerequisite: SOCL 100 or consent of instructor.* Course explores the ecological, interactional, structural functional, technical assistance, action research, evaluation research and leadership approaches to community development practice. Course requires participation in a community development project.

SOCL 466. GENDER, FAMILY, AND SOCIETY. (3) *Prerequisite: SOCL 100.* Examination of gender dynamics and inequality in the context of the family. Issues examined may include mate selection, parenting, same-sex families and parenting, gendered divisions of work, gendered family dynamics by social class and race/ethnicity, costs, for example. SOCL 220 is recommended.

SOCL 470. ENVIRONMENTAL SOCIOLOGY. (3) *Prerequisites: ENG 300 and three credit hours of sociology, or consent of instructor.* Explores environmental thought within the sciences and the general public, including shifting worldviews, social movements, and social structural change associated with sustainability, environmental justice, and the rights of nature. Students are responsible for arranging their own transportation for optional field trips.

SOCL 480. SOCIOLOGY OF AGRI-FOOD SYSTEMS. (3) *Prerequisite: SOCL 100 or consent of instructor.* Course examines the social organization and dynamics of food and agricultural systems. SOCL 270 is strongly recommended, but not required. Field trips are required.

SOCL 489. SOCIOLOGY STUDY ABROAD. (1-6) *Prerequisite: Consent of instructor.* Sociological and cultural study in international locations. May be repeated for credit. No more than six hours may be applied toward the major or minor.

SOCL 494. INTERNSHIP IN SOCIOLOGY. (1-6) *Prerequisites: SOCL 300 or 302 and 80 hours of completed college coursework. Course pass required.* Internships are unique experiential learning opportunities. Once placed with a community partner, the student works toward an enhanced understanding or prior coursework through practical experience in a supervised work situation. Repeatable once for a maximum of six hours.

SOCL 495. DIRECTED STUDY. (1, 2 OR 3) *Prerequisites: Junior standing and consent of department head. Course pass required.* Available to superior students who wish to conduct individual, intensive reading and research in a specific area of sociology in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged.

SOCL 496. DIRECTED STUDY. (1, 2 OR 3) *Prerequisites: Junior standing and consent of department head. Course pass required.* Available to superior students who wish to conduct individual, intensive reading and research in a specific area of sociology in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged.

SOCL 499. SENIOR SEMINAR. (1) *Prerequisite: Senior standing.* Integrates concepts, theories, research methods, and data analysis techniques learned during study of sociology. *(*Grading: Pass / Fail)

SPAN / SPN– SPANISH
DEPARTMENT OF MODERN LANGUAGES (SPAN)

SPAN 100. SPANISH LANGUAGE AND CULTURE ON-SITE. (1-3) *Prerequisite: Permission of instructor.* An introduction to Spanish and Spanish-speaking culture in conjunction with study abroad for students with little or no previous language study. May be repeated for a total of three credits.

SPAN 101. ELEMENTARY SPANISH I. (3) A beginning course designed to develop skills in understanding, speaking, reading and writing and to provide cultural insights.

SPAN 102. ELEMENTARY SPANISH II. (3) *Prerequisite: SPAN 101 or demonstrated proficiency of Novice Mid.* Continuation of development of four skills and of cultural insights. ***Course Fee | Fulfills World Language with a grade of C or better.***

SPAN 105. INTRODUCTION TO HISPANIC CULTURE. (3) Survey of the contemporary values of Spain and Latin America, with emphasis on values, behavioral characteristics, social and political structures, and achievements of the Spanish-speaking people. Taught in English; only taught abroad.

SPAN 200. LATIN AMERICAN SOCIETY: PAST AND PRESENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* This course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing its regions, peoples and cultures. Since this course is taught by various departments, see Latin American studies advisor for enrollment. Not for major or minor credit. Equivalent to GEOG 200, HIST 200, and PS 200. ***Colonnade K-SC***

SPAN 201. INTERMEDIATE SPANISH I. (3) *Prerequisite: SPAN 102 or demonstrated proficiency of Novice High.* A systematic review of grammar and development of reading skills. ***Fulfills World Language with a grade of C or better.***

SPAN 202. INTERMEDIATE SPANISH II. (3) *Prerequisite: SPAN 201 or demonstrated proficiency of Intermediate Low.* Further review of grammar and development of reading skills. ***Fulfills World Language with a grade of C or better.***

SPAN 210. INTERMEDIATE SPANISH CONVERSATION ABROAD. (1-3) *Prerequisite: SPAN 102 or demonstrated proficiency of Novice High.* Course designed to develop the vocabulary and communication skills of a student with one year of college Spanish or equivalent, with emphasis on contact with Spanish native speakers. SPAN 210 may not substitute for SPAN 201 or 202, but may count as an elective for the major or minor. Taught in Spanish. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

SPAN 211. INTERMEDIATE SPANISH CULTURE ABROAD. (1-3) *Prerequisite: SPAN 102 or demonstrated proficiency of Novice High.* Course designed to develop an appreciation for different aspects of Spanish-speaking countries and their people and cultures, for a student with one year of college Spanish or equivalent. SPAN 211 may not substitute for SPAN 201 or 202, but may count as an elective for the major or minor. Taught in Spanish. May be repeated for a total of three credits. ***Fulfills World Language with a grade of C or better.***

SPAN 220. SPANISH FOR CRIMINAL JUSTICE PROFESSIONALS. (3) *Prerequisite: SPAN 102 or demonstrated proficiency of Novice High.* Course designed to develop the specific vocabulary and oral communication skills essential for a student who is intending to pursue a career in criminal justice and who has a background of one year of college Spanish or the equivalent. SPAN 220 will primarily be taught in study abroad programs in Mexico. ***Fulfills World Language with a grade of C or better.***

SPAN 230. SPANISH FOR MEDICAL PROFESSIONALS. (3) *Prerequisite: SPAN 102 or demonstrated proficiency of Novice High.* Course designed to develop the specific vocabulary and oral communication skills essential for a student who is intending to pursue a career in medicine or nursing who has a background of one year of college Spanish or the equivalent. SPAN 220 will primarily be taught in study abroad programs in Mexico. ***Fulfills World Language with a grade of C or better.***

SPAN 306. EXPERIENCING SPANISH ABROAD. (1-6) *Prerequisites: SPAN 202 or demonstrated proficiency of Intermediate Mid. Corequisite: Enrollment in supervised language study while abroad.* Supervised language and cultural studies accomplished during a study abroad program. Students who receive transferable credit for language study done during the study abroad program will receive credit only for cultural study. May be repeated once for a maximum of six hours of credit. ***Fulfills World Language with a grade of C or better.***

SPAN 331. BUSINESS SPANISH. (3) *Prerequisite: SPAN 202 or demonstrated proficiency of Intermediate Mid.* Introduction to business communication in the Spanish-speaking countries: Linguistic structures and vocabulary, forms of business communication, reading and discussion of business texts, social customs. ***Fulfills World Language with a grade of C or better.***

SPAN 345. TOPICS IN SPANISH. (3) *Prerequisites: SPAN 370 or SPAN 331 and SPAN 371.* This course will develop students' linguistic and critical reading skills, as well as their cultural understanding through examination of different contemporary topics in the Hispanic world.

SPAN 370. SPANISH CONVERSATION. (3) *Prerequisite: SPAN 202 or demonstrated proficiency of Intermediate Mid*. Exercises in pronunciation, comprehension and oral expression. ***Fulfills World Language with a grade of C or better.***

SPAN 371. SPANISH COMPOSITION AND GRAMMAR. (3) *Prerequisite: SPAN 202 or demonstrated proficiency of Intermediate Mid.* Controlled written compositions and oral expression. Systematic and intensive review of grammar. ***Fulfills World Language with a grade of C or better.***

SPAN 372. LATIN AMERICAN CIVILIZATION AND CULTURE. (3) *Prerequisite: SPAN 370 or SPAN 331, and SPAN 371.* Survey of the historical and cultural background of Latin America and its people from the Discovery to the present. ***Fulfills World Language with a grade of C or better.***

SPAN 373. SPANISH CIVILIZATION AND CULTURE. (3) *Prerequisite: SPAN 370 or SPAN 331, and SPAN 371.* Survey of historical and cultural background of Spain and its people from the Roman colonization to the present. ***Fulfills World Language with a grade of C or better.***

SPAN 374. LITERATURE AND CULTURE OF SPAIN. (3) *Prerequisite: SPAN 370 or SPAN 331, and SPAN 371.* An introduction to the culture of Spain through the study of literary texts. The course will discuss the historical contexts and cultural milieu that produced selected texts. The analysis of literary texts will be introduced. ***Fulfills World Language with a grade of C or better.***

SPAN 376. LITERATURE AND CULTURE OF LATIN AMERICA. (3) *Prerequisite: SPAN 370 or SPAN 331, and SPAN 371.* An introduction to the culture of Latin America through the study of their literary and cultural production. The course will discuss the historical contexts and cultural milieu that produced selected texts. The analyses of literary texts will be introduced. ***Fulfills World Language with a grade of C or better.***

SPAN 381. SPANISH GRAMMAR THROUGH CULTURAL READINGS. (3) *Prerequisite: SPAN 371.* Students will read a variety of texts in order to increase reading comprehension, acquire a broader vocabulary, and enhance grammatical proficiency in preparation for the study of literature. ***Fulfills World Language with a grade of C or better.***

SPAN 384. SPANISH PHONETICS AND PHONOLOGY. (3) *Prerequisite: SPAN 331 or 370 and 371.* An analytical and practical study of contemporary Spanish pronunciation (phonetics and phonology), including the articulatory system, sound production, the classification of vowels and consonants, phonetic transcription and some dialect features.

SPAN 389. INTERNSHIP IN SPANISH. (1-3) *Prerequisites: SPAN 372 or SPAN 373 or SPAN 374 or SPAN 376 and permission of instructor.* Supervised work using Spanish in a professional setting. Open only to Spanish majors or minors. May be repeated once for elective credit in the major or minor for a maximum of six hours. ***Fulfills World Language with a grade of C or better.***

SPAN 453. INTRODUCTION TO SPANISH LINGUISITICS. (3) *Prerequisite: SPAN 372 or SPAN 373, and SPAN 374 or SPAN 376.* An overall understanding of major sub-areas of Spanish linguistics that will allow students to develop a deeper appreciation of the structure of Spanish and the speakers' use of the language.

SPAN 455. TOPICS IN HISPANIC LITERARY AND CULTURAL STUDIES. (3) *Prerequisite: SPAN 345 or SPAN 372 or SPAN 373, and SPAN 374 or SPAN 376.* Examines different literary and cultural topics of interest in Hispanic Studies. May be repeated for different topics. ***Fulfills World Language with a grade of C or better.***

SPAN 470. ADVANCED ORAL SPANISH. (3) *Prerequisite: SPAN 370.* Conversation units, dramatic sketches, original oral topics. ***Fulfills World Language with a grade of C or better.***

SPAN 471. ADVANCED SPANISH COMPOSITION. (3) *Prerequisite: SPAN 371 and SPAN 372 or SPAN 373 or SPAN 374 or SPAN 376.* Examination of selected literary works; original compositions on selected topics. ***Fulfills World Language with a grade of C or better.***

SPAN 476. TWENTIETH CENTURY SPAIN. (3) *Prerequisite: SPAN 374 or SPAN 376.* A chronological study of the culture of Spain through the study of representative works. The course will discuss the historical contexts and cultural milieu that produced selected texts. The analyses of literary texts will be introduced. ***Fulfills World Language with a grade of C or better.***

SPAN 480. TRANSLATION AND INTERPRETING. (3) *Prerequisite: SPAN 372 or SPAN 373, and SPAN 374 or SPAN 376.* The principles of translation and translation history including extensive practical work with translations of literary and non-literary texts from Spanish to English and vice versa. Students will also learn the principles and develop the skills of interpretation.

SPAN 490. HISPANIC CINEMA. (3) *Prerequisites: SPAN 370 or SPAN 331, and SPAN 371, and one other 300-level.* Introduction to the cinematic work of Latin American, Spanish, and US-Hispanic-Latino film artists and development of critical interpretative skills that enhance appreciation of films. ***Fulfills World Language with a grade of C or better.***

SPAN 499. ADVANCED STUDIES IN SPANISH. (1-4) *Prerequisites: Junior or senior standing and permission of instructor.* For guided independent study in culture, language, or literature. May be used with consent of full-time program faculty members for work accomplished during study abroad. Number of credit hours will be determined in consultation with instructor. May be repeated for a maximum of six hours of credit. ***Fulfills World Language with a grade of C or better.***

SPED – SPECIAL EDUCATION
SCHOOL OF TEACHER EDUCATION

SPED 200. THE CULTURE OF DISABILITY. (3) Social and cultural perspectives on disabilities. Covers major types of disabilities, disability as a socially-constructed concept, images and stereotypes of disabilities within various cultures, and cultural norms that create barriers to individuals' participation in society.

SPED 330. INTRODUCTION TO EXCEPTIONAL EDUCATION: DIVERSITY IN LEARNING. (3) *Prerequisites: EDU 250, FACS 192, MGE 275, AGED 250 or AMS 329; and either PSY 310 or FACS 191; or instructor permission.* Characteristics of exceptionality, special education programs, schools, and community resources and research relative to exceptionality. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 331. EARLY CHILDHOOD EDUCATION FOR CHILDREN WITH DISABILITIES. (3) *Prerequisites: FACS 191, FACS 192, or instructor permission. Corequisites: SPED 330 or instructor permission.* Emphasis on services and supports for children from birth through five years old, with and without disabilities, and their families, including current intervention research. Field experiences in early childhood settings away from campus are required. Students are responsible for arranging their own transportation to and from assigned sites.

SPED 332. INTERVENTION STRATEGIES FOR STUDENTS WITH MILD DISABILITIES. (3) *Prerequisites: SPED 331, 333, and 432. Corequisites: SPED 334, 422, 430 and 433.* The student is taught to make appropriate choice / use of audio-visual media and adapted instructional materials in the content areas for individuals with mild disabilities. Field experiences in public schools and / or other appropriate settings away from campus required. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 333. TRANSITION: SCHOOL TO ADULT LIFE. (3) *Prerequisites: SPED 330 and LTCY 320. Corequisites: SPED 331 and 432.* Students are exposed to theory and practice of preparing individuals with disabilities to enter the world of work and independent adult citizenship. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 334. FIELD-BASED PRACTICUM WITH INDIVIDUALS WITH DISABILITIES. (3) *Prerequisites: SPED 331, 333 and 432. Corequisites: SPED 332, 422, 430 and 433.* Students interact with individuals with disabilities in classrooms and institutions via field experiences to discover the nature of exceptionality, view programs, and make career decisions. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 335. FOUNDATIONS OF SPECIAL EDUCATION. (3) *Prerequisite: EDU 350, or instructor permission* A foundational methods course of special education history, law and procedures for effective design to manage, plan, assess, and teach P-12 students in LBD programs. Field experience may be required. Students are responsible for their own transportation.

SPED 340. LBD ELEMENTARY INSTRUCTIONAL METHODS. (3) *Prerequisite: SPED 335.* Research-based instructional methods for elementary students with mild disabilities. Field experiences may be required. Students are responsible for their own transportation to assigned sites.

SPED 345. LBD SECONDARY METHODS. (3) *Prerequisite: SPED 335.* Methods, strategies, and models for providing curricular and instructional methodologies in the education of secondary LBD students. Integration of appropriate age- and ability-level academic instruction preparing for transition to work. Field experiences required. Students are responsible for own transportation to designated sites.

SPED 350. ASSESSMENT IN SPECIAL EDUCATION. (3) *Prerequisites: SPED 335 and admission to professional education.* Assessment of students with disabilities – progress monitoring, formative, summative, eligibility determination, and inclusion in accountability systems.

SPED 400. BEHAVIOR MANAGEMENT STRATEGIES IN SPECIAL EDUCATION. (3) *Prerequisites: Passing the Praxis CASE tests (reading, writing, and math) as required for admission to teacher education and SPED 335 (or SPED 335 as co-requisite with teacher permission).* Classroom management strategies specific to students with mild to moderate disabilities. Special consideration for the function, measurement, documentation, and modification of specific behaviors to improve student progress academically and socially. Fieldwork may be required. Students are responsible for their own transportation to designated sites.

SPED 415. PRESCRIPTIVE PROGRAMMING FOR INDIVIDUALS WITH SEVERE EMOTIONAL AND BEHAVIORAL DISORDERS (3) *Prerequisite: SPED 334. Corequisites: SPED 416, 417, 418 and 431.* History of instructional models characteristics. Evaluation procedures for identification and instruction with individuals with severe emotional and behavioral disorders, autism, and other pervasive developmental disorders. Field experience in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 416. FIELD-BASED PRACTICUM WITH INDIVIDUALS WITH MODERATE AND SEVERE DISABILITIES (3) *Prerequisite: SPED 334. Corequisites: SPED 415, 417, 418 and 431.* Supervised practice in an appropriate setting for development of advanced intervention skills used with individuals with moderate and severe disabilities. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 417. ASSESSMENT AND CURRICULUM I FOR STUDENTS WITH MODERATE / SEVERE DISABILITIES (3) *Prerequisite: SPED 334. Corequisites: SPED 415, 416, 418 and 431.* Characteristics, problems and needs of individuals with moderate to severe disabilities. Curriculum and assessment models are evaluated; intervention strategies for both cognitive and social skills are designed. Field experiences in public schools and / or other appropriate settings are required in this course. Students are responsible for arranging their own transportation to designated sites.

SPED 418. ASSESSMENT AND CURRICULUM II FOR STUDENTS WITH MODERATE / SEVERE DISABILTIES (3) *Prerequisite: SPED 334. Corequisites: SPED 415, 416, 417 and 431.* This course builds upon SPED 417. Topics include routine / emergency medical procedures, physical management / handling, postural motor dysfunction, recreation, transition programming and modifications with language / vision / hearing impairments. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation in designated sites.

SPED 419. ASSISTIVE TECHNOLOGY IN THE CLASSROOM AND COMMUNITY. (3) *Prerequisite: SPED 330.* This class is designed to provide an overview of assistive technology and augmentative / alternate communication devices and their application in the special education classroom. This class will enable participants to develop sound and inclusive technology plans that meet the needs of students with moderate to severe disabilities.

SPED 422. COLLABORATION AND INCLUSION IN SCHOOL AND COMMUNITY SETTINGS. (3) *Prerequisites: SPED 331, 333 and 432. Corequisites: SPED 332, 334, 430, 433.* The course provides an overview of methods which facilitate collaboration across disciplines to support diverse learners in regular classroom and community settings. Field experiences are required.

SPED 424. INCLUSION, COLLABORATION AND DIVERSITY IN THE CLASSROOM. (3) *Prerequisites: SPED 335 and admission to professional education or instructor approval.* Develops and enhances communication in the collaboration roles of key stakeholders working with at-risk, identified, and diverse students in the special education process. Field experience required. Candidates are responsible for their own transportation to assigned sites.

SPED 425. LBD LANGUAGE INTERVENTIONS: STRATEGIES AND MATERIALS. (3) *Prerequisites: SPED 335 and admission to professional education.* Language and reading development with emphasis on remediation using research-based strategies, methods, and materials for students with LBD, including English learners.

SPED 430. DIAGNOSIS FOR INSTRUCTIONAL PLANNING: STUDENTS WITH MILD DISABILITIES. (3) *Prerequisites: SPED 331, 333, and 432. Corequisites: SPED 332, 334, 422 and 433.* This course will deal with the administration, scoring, and educational utilization of various diagnostic instruments designed to assist the teacher in developing an educational profile for the individual with school-related problems. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 431. LANGUAGE INTERVENTION: STRATEGIES AND MATERIALS. (3) *Prerequisite: SPED 334. Corequisites: SPED 415, 416, 417 and 418.* An overview of language development is provided with emphasis placed on the educational remediation of language disorders. Focus is on the utilization of methods and materials which foster language development. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 432. APPLIED BEHAVIOR ANALYSIS. (3) *Prerequisite: SPED 330. Corequisites: SPED 331 and 333.* Major emphasis is placed upon observing, analyzing and modifying the behavior of students. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 433. MODELS OF POSITIVE BEHAVIOR SUPPORT. (3) *Prerequisites: SPED 331, 333 and 432. Corequisites: SPED 332, 334, 422 and 430.* Examines an array of models for supporting positive behavior changes in students. Field experience required.

SPED 434. STUDENT TEACHING SEMINAR. (3) *Prerequisite: Completion of all exceptional education coursework, admission to student teaching. Corequisite: SPED 490.* This course is designed to serve as a pre-student teaching experience to allow a student to integrate the process of diagnostic-prescriptive teaching. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 480. SENIOR PROJECT FOR LEARNING AND BEHAVIOR DISORDERS. (3) *Prerequisites: SPED 424 and admission to professional education, or instructor approval.* Supervised field placement in P-12 settings serving students with LBD. Students are responsible for arranging their own transportation to designated or assigned sites.

SPED 490. STUDENT TEACHING: EXCEPTIONAL EDUCATION. (10) *Prerequisite: Admission to teacher education and admission to student teaching. Corequisite: EDU 489.* Supervised assignment in approved school setting. Must complete a minimum of sixteen weeks in one or two placements depending on certification requirements. Students follow the academic calendar of the school district in which they are placed and are responsible for providing their own transportation to assigned site(s). ***Course Fee***

SPM – SPORT MANAGEMENT
SCHOOL OF KINESIOLOGY, RECREATION, AND SPORT

SPM 200. INTRODUCTION TO SPORT MANAGEMENT. (3) The history, principles, and objectives within the sport management profession, overview of sport delivery systems, study of sport as a microcosm of society, and career options with sport organizations.

SPM 290. SPORT MANAGEMENT SEMINAR. (3) *Prerequisite: This course is restricted to students with a major code of 572P (Sport Management-Prep) or 572 (Sport Management).* Exploration of sport management career planning including application materials, interviewing, and other professional issues.

SPM 300. PUBLIC POLICY IN SPORT. (3) Examines social, political, and economic impact of national and international sport. Topics include structure of public finance of sport, politics of sport, sport and public health, community ownership, globalization of sport, and professional sport.

SPM 305. SPORT EVENT MANAGEMENT. (3) Addresses the management of sporting events and tournaments. Students will learn multiple methods of designing and implementing tournaments and special events.

SPM 310. SPORT ETHICS AND MORAL ISSUES. (3) Examines ethical and moral issues that occur in sport organizations and teams.

SPM 315. SPORT COMMUNICATION. (3) Introduces students to the management of communication and public relations within sport.

SPM 402. FISCAL PRACTICES IN SPORT MANAGEMENT. (3) Financial principles and practices relevant to Sport Management. Topics include financial statements and ratios, financial risk management, debt and equity financing, feasibility studies, economic impact analysis, capital budgeting, and facility financing.

SPM 404. SPORT FACILITY MANAGEMENT. (3) A practical orientation to the management and operation of facilities that exist in sport management industries.

SPM 450. SPORT LAW. (3) *Prerequisites: Junior or senior classification and admitted to the Sport Management major.* Legal systems and the concepts of tort law, risk management, product liability, constitutional law, administrative / statutory law, and crowd control and security of sport organizations.

SPM 452. SPORT LEADERSHIP AND MANAGEMENT. (3) *Prerequisites: Junior or senior classification and admitted to the Sport Management major.* Knowledge of various skills, roles, and functions of the sport manager, leadership theory and practices as they relate to various sport managerial responsibilities.

SPM 454. SPORT GOVERNANCE. (3) *Prerequisites: Junior or senior classification and admitted to the Sport Management major.* Familiarization of sport organization governing bodies, including identifying those in amateur and professional sports, their organizational structure, authority, requirements for membership, sanctions and appeals, and the influence of outside political organizations.

SPM 456. ADVANCE STUDIES IN SPORT. (1-3) *Prerequisites: Senior classification, permission of advisor, and admitted to the Sport Management major.* Research, workshop or project related to the sport industry in collaboration with a faculty member.

SPM 490. INTERNSHIP IN SPORT. (12) *Prerequisites: Senior classification, admitted to the Sport Management major and completion of all major courses.* Supervised internship with community, interscholastic, intercollegiate, amateur, or professional sport industry organizations. This experience is supervised and controlled by university faculty members and personnel from sport industry agencies. Students will be responsible for their own transportation to off-campus meetings.

SPS
SCHOOL OF PROFESSIONAL STUDIES

SPS 300. SYSTEMS THINKING AND PROBLEM SOLVING IN COMPLEX ORGANIZATIONS. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* An introduction to systems dynamics, the characteristics of complex systems, and the process of using a systems thinking perspective to solve problems in business organizations. ***Colonnade K-SY***

SPS 395. SPECIAL TOPICS IN PROFESSIONAL STUDIES. (3) *Prerequisite(s): Junior standing or permission of the instructor.* A detailed study of a specialized topic in professional studies.

SPS 399. INDEPENDENT STUDY IN PROFESSIONAL STUDIES. (1-3) *Prerequisite: Permission of the instructor.* Individual research, literature review or professional development project in a specific area of professional studies, in close cooperation with supervising faculty. Repeatable two times for up to 6 credits.

SPS 400. FOUNDATIONS OF GLOBAL CITIZENSHIP. (3) An examination of the practice of global citizenship, the connection between the global and the local, common values, and shared challenges and benefits. ***Colonnade K-LG***

STAT – STATISTICS
DEPARTMENT OF MATHEMATICS

STAT 301. INTRODUCTORY PROBABILITY AND APPLIED STATISTICS. (3) *Prerequisite: MATH 136 or MATH 142 with a grade of "C" or higher.* A calculus-based introduction to applied statistics, with emphasis on analysis of real data. Curve fitting, probability models, estimation and testing for means and proportions, quality control; use of computers for data analysis and simulation.

STAT 330. INTRODUCTION TO STATISTICAL SOFTWARE. (3) *Prerequisite: three hours of undergraduate statistics with a grade of "C" or better, or consent of instructor.* Using proprietary and open-source statistical software for data analysis. Interactive techniques for data management, manipulation and transformation. Interactive techniques for data error checking, descriptive statistics, basic inferential statistics, and basic report generation such as tabular and graphical displays. Introduction to scripts and batch processing when applicable. Proper use and interpretation of the methods are emphasized.

STAT 401. REGRESSION ANALYSIS. (3) *Prerequisite: STAT 301 with a grade of "C" or better; STAT 330 (may be taken concurrently) or CS 396 with a grade of "C" or better; or permission of instructor.*. Regression topics including simple and multiple linear regression, least squares estimates, inference, transformations, diagnostic checking, and model selection methods. Selected special regression topics will also be introduced. Statistical software packages will be used for analyses.

STAT 402. EXPERIMENTAL DESIGN. (3) *Prerequisite: STAT 301 with a grade of "C" or better; STAT 330 (may be taken concurrently) or CS 396 with a grade of "C" or better; or permission of instructor.* Experimental design and analysis topics including single- and multiple-factor designs, factorial and fractional factorial designs, fixed vs. random effects models, response surface, nested designs, and special topics. Statistical software packages will be used for analyses.

STAT 440. CATEGORICAL DATA ANALYSIS. (3) *Prerequisite: A grade of "C" or better in STAT 301. Prerequisite or Corequisite: STAT 330.* Categorical data analysis topics including contingency tables, log-linear models, relative risk and odds, and logistic regression. Statistical software packages will be used for data analyses.

SUS
DEPARTMENT OF ENGLISH

SUS 099C. SUPPLEMENTAL WRITING LAB. (1) *Prerequisite: English ACT score of 15 or below, or equivalent. Corequisite: ENGL 100C.* Students who wish to enroll in ENGL 100C who score below 16 on the ACT must also enroll in SUS 099C, a one-credit hour co-requisite support workshop. Enrollment in ENGL 100C and SUS 099C is at the discretion of the instructor.

SUS 215. MAKERSPACE LITERACIES. (3) An introductory course offering applied experience in current creative tools and technologies such as 3D printing, CNC routing, simple programming, robotics, and associated applied mathematics, this course is designed to develop student leadership (inclusion, diversity, teamwork), basic tool and shop safety (hand and small power tools/CNC machines), and introduce students to basic understanding and application of CNC technologies (3D printing, CNC router, laser and vinyl cutters), basic design concepts and familiar with current appropriate free software. Students will work individually and in teams to source materials, design and develop unique projects. Some semesters may include service learning such that students will participate in organized community and/or academic presentations.

SUS 276. DISPLACED PERSONS & CIVIC ENGAGEMENT. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Analysis individual and host country crises and concerns surrounding displaced persons (DPs). Examination of the integration process and exploration of careers associated with assistance agencies. Includes a service learning project. ***Colonnade K-LG***

SUS 295. POPULAR CULTURE AND GENDER: SIGNS & NARRATIVES. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Through the study of signs and narrative structures, this course investigates contemporary Western popular culture's concepts of gender. ***Colonnade K-SC***

SWAH – SWAHILI
DEPARTMENT OF MODERN LANGUAGES

SWAH 101. ELEMENTARY SWAHILI. (3) Prepares students to communicate verbally and in writing in simple routine tasks; to understand written or spoken communication on everyday topics and develop cultural awareness.

SWAH 102. ELEMENTARY SWAHILI II. (3) *Prerequisite: SWAH 101.* Continuation of the development of communication skills on everyday topics and of cultural insights. ***Fulfills World Language with a grade of C or better.***

SWRK – SOCIAL WORK
DEPARTMENT OF SOCIAL WORK

SWRK 101. FOUNDATIONS OF HUMAN SERVICES. (3) Starting with the basic principles, concepts and a historical perspective, the course will examine problems addressed by diverse social service programs and explore their activities. ***Colonnade E-SB | SB***

SWRK 205. INTRODUCTION TO SOCIAL WORK. (3) An introduction to the social work profession and its value, skill and knowledge bases. The history, development, and current status of the social work profession are explored. This introductory course emphasizes appreciation of and respect for human diversity as core concerns of professional social work practice.

SWRK 270. MENTAL HEALTH AND SOCIAL POLICY. (3) A survey course of the mental health delivery system in the United States. Services and issues will be discussed.

SWRK 300. DIVERSITY AND SOCIAL WELFARE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* This course engages students in the analysis of the nature and impact of economics, political and social ideologies, and cultural forces that shape the development of social welfare policies impacting diverse populations in the United States and abroad. The course emphasizes comparative approaches to the analysis of welfare policies influencing service delivery locally and globally. Policies covered include those that address: poverty, public assistance, health and behavioral health care, criminal justice, child welfare, food insecurity, and homelessness. Specific attention will be paid to the implications of social welfare policies for economic, environmental, and social justice issues and their impact on marginalized populations. ***Colonnade K-LG***

SWRK 301. SOCIAL WORK PRACTICE FOR DIVERSITY, EQUITY, AND INCLUSION. (3) *Prerequisites / corequisites: SWRK 101, SWRK 205, and admission to the BSW program.* Explores how students' personal identity and experiences shape views of social, economic, and environmental justice issues affecting marginalized populations. Focuses on building upon this understanding to begin to develop cultural competence in preparation for social work practice with vulnerable client systems.

SWRK 325. SOCIAL WORK & WOMEN IN SOCIETY. (3). Prerequisite: Junior standing or consent of instructor. This course will provide an analysis of women's status and position within our society, based on the premise that women's experiences emerge from society' s political, social, and economic structures. Content areas emphasized include women and social change, violence, poverty, men, and feminist change strategies.

SWRK 326. SERVICES FOR THE OLDER AMERICAN. (3) *Prerequisite: Junior standing or consent of instructor.* This course focuses on individual and societal aspects of aging with emphasis on programs, resources and services to meet the social tasks of later life. Field trips to off-campus locations are required. Students are responsible for providing their own transportation.

SWRK 330. HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I. (3) *Prerequisites: SWRK 101 and 205. Prerequisite for majors: Admission to the program.* The social, natural, and behavioral sciences are used to examine human behavior across the life span, especially as influenced by ethnicity, class, gender, sexual orientation, and ability.

SWRK 331. HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II. (3) *Prerequisite: SWRK 330.* Human behavior in the social environment with emphasis on families, groups, organizations, communities, and cultures. The importance of diversity and the human environment as factors in influencing behavior will be highlighted.

SWRK 344. SOCIAL WORK STATISTICS AND DATA ANALYSIS. (3) *Prerequisites: MATH 116 or equivalent, SWRK 101 and 205. Enrollment limited to a social work major or minor.* An introduction to descriptive and inferential statistics, focusing on integrating research and social work practice, and computer applications in research.

SWRK 345. SOCIAL WORK RESEARCH METHODS. (3) *Prerequisite: SWRK 344.* An introduction to concepts, research design, and program evaluation in social work research. Emphasis will be placed on developing skills in utilizing research information in social work practice.

SWRK 356. SERVICES FOR JUVENILE OFFENDERS AND THEIR FAMILIES. (3) *Prerequisite: Junior standing or consent of instructor.* The nature and extent of delinquency, structure, and function of the juvenile court will be stressed. Emphasis will be on the provision of services to the juvenile offenders and their families. Field trips to off-campus locations are required. Students are responsible for providing their own transportation.

SWRK 357. CASE MANAGEMENT. (3) This course introduces students to the fundamental aspects of case management (service coordination), including common case management roles, processes, responsibilities, and employment challenges. Major content areas include: case management roles (including advocate, broker, resource coordinator), the roles and responsibilities of the multidisciplinary team (including nurses, social worker, physicians, and other disciplines), case management with special populations (forensic, geriatric, children, diverse populations), and the responsibilities of a case manager working in health care and mental health settings. Students will be introduced to the employment challenges of case management (types of programs that hire case managers, workforce retention issues, expectations of case manager, and job satisfaction). Students will develop familiarity with how case managers and clients interface with individual, group, and family systems. Students will develop knowledge of case management ethics and explore common ethical dilemmas and boundaries issues that confront case managers.

SWRK 375. SOCIAL WORK PRACTICE I. (3) *Prerequisites: SWRK 101, SWRK 205 and admission to the program. Corequisite: SWRK 330.* The first of three practice classes that equip students with theory and skills for effective generalist social work practice with individuals and their interpersonal networks.

SWRK 378. SOCIAL WORK PRACTICE II. (3) *Prerequisites: SWRK 330 and 375, restricted to social work majors.* The second of three practice classes that equip students with theory and skills for effective generalist social work practice with groups.

SWRK 379. INTRODUCTION TO SOCIAL WORK COMMUNICATION SKILLS. (3) *Prerequisites: SWRK 330 and SWRK 375.* Study and practice of interviewing individuals, families, and groups. The skill of relationship building as it relates to both micro and macro practice of social work is emphasized.

SWRK 381. SOCIAL WORK PRACTICE III. (3) *Prerequisite: SWRK 379.* The third of three practice classes that equip students with theory and skills for effective generalist social work practice with organizations and communities.

SWRK 395. SOCIAL WELFARE POLICY AND ISSUES. (3) *Prerequisite: SWRK 330.* An understanding of the historical perspectives of social welfare policies as they affect current policy issues. Includes examination of the processes of policy formulation. Models of policy analysis assist students in identifying, and their impact on citizens representing a diversity of backgrounds.

SWRK 433. ETHICAL ISSUES AND DILEMMAS IN SOCIAL WORK. (3) *Prerequisites: SWRK 101 and SWRK 205, or permission of the instructor.* An examination of professional ethics and common ethical dilemmas in social work. Models of ethical decision making are applied in case vignettes.

SWRK 436. SERVICES TO CHILDREN. (3) *Prerequisite: Junior standing or consent of instructor.* A survey of institutional and community services with focus on principles of social services for children and their families.

SWRK 437. MILITARY SOCIAL WORK. (3) This course is designed to increase knowledge and competence in the area of social work services delivered to military personnel, Veterans and their families. Knowledge, values and skills required to work with this special population will be covered, along with evidence-based interventions that would be best suited for this area of social work practice.

SWRK 450. CHILD MALTREATMENT. (3) *Prerequisite: Junior standing.* Comprehensive introduction to child abuse and neglect from a social work perspective. The extent of the problem, effects on children, treatment issues, the social worker's role, and advocacy on behalf of individuals and families are explored. This course is the first of two specific course requirements for the Public Child Welfare Certification Program available through WKU and the Kentucky Cabinet for Families and Children.

SWRK 451. CHILD MALTREATMENT INTERVENTIONS. (3) *Prerequisites: SWRK 375 and 450.* Second of two specific course requirements for the Public Child Welfare Certification Program available through WKU and the Kentucky Cabinet for Families and Children. Covers various practice skills and treatment interventions related to social work with abused neglected children and their families. Students will have several opportunities to develop their own skills through a variety of teaching methods.

SWRK 480. SOCIAL WORK FIELD PRACTICUM I. (3) *Prerequisites: SWRK 345, 378, 381, field director approval and senior standing. Corequisite: SWRK 481.* Social Work practice experience in a social service agency. (Grading: Pass / Fail)

SWRK 481. SOCIAL WORK FIELD SEMINAR I. (3) *Prerequisites: SWRK 345, 378, 381, and admission to the field internship, and senior standing. Corequisite: SWRK 480.* Integration of the knowledge, skills, values, and experiences gained in the internship.

SWRK 482. SOCIAL WORK FIELD PRACTICUM II. (3) *Prerequisites: SWRK 480 / 481. Corequisite: SWRK 483.* Continued social work practice experience in a social service agency. (Grading: Pass / Fail)

SWRK 483. SOCIAL WORK FIELD SEMINAR II. (3) *Prerequisites: SWRK 480 / 481. Corequisite: SWRK 482.* Integrates the knowledge, skills, values, and experiences gained during the second semester of the internship.

SWRK 485. INTEGRATED GENERALIST SOCIAL WORK PRACTICE. (3) *Prerequisites: SWRK 331, 375, and 379.* Overview of social work practice theories, skills, cultural competencies, values and policies. Provides a framework for contextualizing social work practice interventions across multilevel client systems. Includes preparation for the field practicum experience and professional development.

SWRK 490. SELECTED TOPICS IN SOCIAL WORK. (3) *Prerequisite: Consent of instructor.* This course permits in-depth examination of selected topics in social work. The specific topics vary. May be repeated with different topics.

SWRK 495. DIRECTED STUDY. (1-3) *Prerequisites: Junior standing and consent of director.* Available to students who wish to conduct individual, intensive reading and research in a specific area of social work, in close cooperation with supervising faculty. Approval required prior to enrollment.

SWRK 496. DIRECTED STUDY. (1-3) *Prerequisites: Junior standing and consent of director.* Available to students who wish to conduct individual, intensive reading and research in a specific area of social work, in close cooperation with supervising faculty. Approval required prior to enrollment.

THEA– THEATRE
DEPARTMENT OF THEATRE AND DANCE (THEA)

THEA 101. ACTING I: VOICE AND MOVEMENT. (3) A foundational acting course designed to help students become aware of, develop, and integrate and properly maintain their natural vocal and kinesthetic performing abilities. Restricted to theatre majors and minors.

THEA 141. STAGE MAKEUP. (1) Fundamental theory and application of standard and character stage makeup.

THEA 151. THEATRE APPRECIATION. (3) A study of the literary, historical and creative aspects of the theatre. It is designed to develop an understanding and appreciation of the art of theatre from the point of view of the audience. ***Colonnade E-AH | AH***

THEA 203. ACTING AUDITION WORKSHOP. (1) A developmental studio workshop designed to help students select and prepare effective audition monologues, learn and apply performance techniques unique to the auditioning, and successfully navigate the audition application process. Required for all students needing written departmental recommendation on audition application forms. Repeatable once for credit. *(*Grading: Pass / Fail)

THEA 204. PORTFOLIO PREPARATION WORKSHOP. (1) Introduction to the process of compiling design and technical resumes and portfolios for the performing arts fields. (Grading: Pass / Fail)

THEA 219. DESIGN I. (3) *Prerequisite: THEA 252 or permission of instructor.* An introduction to the fundamental design concepts, techniques and processes common to all areas of theatre production.

THEA 222. STAGECRAFT. (3) *Prerequisite: PERF 120: Rehearsal & Production I, or permission of instructor.* Students enrolling in this course must also concurrently enroll in a section of Rehearsal & Production. This course presents the fundamental tools, materials and methods of scenery construction. Other topics include stage rigging, drafting and scene painting. Practical experience is gained by assisting with the construction of scenery for the department's mainstage productions.

THEA 230. STAGE COMBAT I: UNARMED. (3) *Prerequisites: THEA 101, PERF 205, or permission of instructor.* A study of unarmed violence for the stage including punches, slaps, kicks, falls, and rolls. Classic vs. contemporary approaches to staging violence will also be covered. Repeatable once for a total of six credit hours, only three of which may be applied towards a major.

THEA 241. COSTUME TECHNOLOGY. (3) *Prerequisite: PERF 120, or permission of instructor* Students enrolling in this course must also concurrently enroll in a section of Rehearsal and Production. A basic study of construction techniques for complete stage costumes with emphasis on historical costumes for the theatre.

THEA 250. STAGE ELECTRICS. (3) *Prerequisite: PERF 120 or permission or instructor.* Students enrolling in this course must also concurrently enroll in a section of Rehearsal and Production. Introduction to the fundamentals of lighting and sound for theatre.

THEA 252. FUNDAMENTALS OF THEATRE. (3) An introductory course in theatre. It provides the student with a study of play analysis and its practical application by means of theatre production projects.

THEA 300. ACTING II: ACTING CRAFT. (3) *Prerequisites: THEA 101 or permission of instructor.* Improvisation, theatre games, and introductory scene and / or monologue work intended to develop fundamental performance and ensemble collaboration skills.

THEA 301. ACTING III: CHARACTERIZATION & SCENEWORK. (3) *Prerequisites: THEA 252, and a "C" or better in THEA 300, or permission of instructor.* An acting studio course focusing on the fundamentals of text and character analysis, characterization, and performance.

THEA 303. ACTING FOR THE CAMERA. (3) A fundamental approach to auditioning and acting for the camera. Equivalent to BCOM 303.

THEA 306. MUSICAL THEATRE ENSEMBLE. (1) Musical theatre vocal ensemble. Repeatable seven times for a total of eight credit hours.

THEA 307. MUSICICAL THEATRE WORKSHOP I. (3) *Prerequisite: THEA 101 or permission of instructor.* Practice in integrating singing, acting, and movement using musical theatre repertoire from 1920 to present. Repeatable twice for up to 9 hours of credit. ***Course Fee***

THEA 312. STAGE MANAGEMENT PRACTICUM. (3) *Prerequisites: Permission of instructor. Requires a concurrent stage management assignment.* A practical application course designed to dovetail with an actual stage management assignment providing theoretical grounding and practical "on-the-job" experience in stage management.

THEA 319. DESIGN II. (3) *Prerequisite: THEA 219 or permission of the instructor.* Application of fundamental design concepts and techniques to the design of scenery, costumes and lighting for the theatre.

THEA 322. STAGE DESIGN. (3) *Prerequisites: THEA 222, 319 or permission of instructor.* This course presents basic principles for designing theatre scenery. The student will create designs for three plays, including one complete design with drafting, sketches and a model.

THEA 323. PERIOD STYLES IN DESIGN. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status.* The study of aesthetic styles as general artistic principles and in costume and décor applications. Emphasis on design as communication across cultures and time periods. No prerequisites required, but taking an introductory art and / or design course in any field before taking this course is recommended. ***Colonnade K-SC***

THEA 324. APPLIED VOCAL STYLES I. (1) *Prerequisites: Admission to the BFA-Music Theatre Concentration and sophomore standing.* Topic-based individual or small group instruction in applied vocal styles for the theatre. *Repeatable once for a total of 2 credits.*

THEA 325. THEATRE IN EDUCATION. (3) An overview of strategies for teaching theatre to students in grades K-12. Topics covered include curriculum development, creative dramatics, arts integration, and assessment.

THEA 330. STAGE COMBAT II. (3) *Prerequisite: THEA 230 or permission of instructor.* Staged swordplay technique and choreography featuring single rapier. Repeatable 2 times for credit.

THEA 341. CULTURE AND PERFORMANCE. (3) *Prerequisite: 21 hours of Foundations and Explorations Courses, or junior status*. Survey of world theatre exploring how the aesthetics of theatrical performance reflect and influence cultural and social norms across world cultures, both historically and in current practice. ***Colonnade K-SC***

THEA 354. HISTORY OF DRAMA TO 1640. (3) *Prerequisite: Colonnade Category F-AH.* A comprehensive course which traces the major developments in drama from the ancient Greeks to 1640. Emphasis is placed on representative dramatists and plays. Equivalent to ENG 354.

THEA 355. HISTORY OF DRAMA SINCE 1640. (3) *Prerequisite: Colonnade Category F-AH.* A continuation of THEA 354. Equivalent to ENG 355.

THEA 358. DRAMA WRITING. (3) *Prerequisites: ENG 200 and 203 or permission of instructor.* A concentrated study of the techniques of drama writing emphasizing contemporary theory and practice. Equivalent to ENG 358.

THEA 363. WORLD THEATRE HISTORY I. (3) A study of influential, worldwide theatrical movements, ideas, technologies and personalities that shaped the development of theatre from origin theories through 17th century.

THEA 364. WORLD THEATRE HISTORY II. (3) A study of influential, worldwide theatrical movements, ideas, technologies and personalities that shaped the development of theatre from the 18th century to the present.

THEA 365. US THEATRE HISTORY. (3) Survey of US theatre history, with a focus on the 20th century to the present.

THEA 371. DIRECTING I. (3) *Prerequisite: THEA 252.* A combined theory / studio course designed to provide both a theoretical framework and practical experience with the stage director's pre-production process, including: dramaturgical research and analysis, production conceptualization, promptbook preparation, the fundamentals of stage composition, organic blocking and the director / designer collaboration.

THEA 372. DIRECTING LAB. (1) *Corequisite: THEA 371 or permission of instructor.* Studio for THEA 371. Applied practice in ground-plan development and implementation, organic blocking, coaching actors and rehearsal management. Repeatable once for credit.

THEA 375. TOPICS IN DRAMA. (3) *Prerequisite: THEA 252 or ENG 354 or ENG 355.* Topics-based course focusing on a particular area of dramatic theory and / or literature. May be repeated twice for a total of nine credit hours.

THEA 380. DIRECTING II. (3) *Prerequisites: THEA 371 and permission of instructor.* Applied practice in ground-plan development and implementation, organic blocking, coaching actors, and rehearsal management.

THEA 385. APPLIED VOCAL STYLES II. (1) *Prerequisite: Instructor permission.* Topic based individual or small group instruction in applied vocal styles for the theatre. Repeatable five times for a total of six credit hours.

THEA 391. THEATRE FOR YOUNG AUDIENCES. (3) *Prerequisite: THEA 252 or permission of instructor.* An examination of the selection, preparation, and presentation of plays for children. Emphasis on analysis of plays for young audiences, script sources and production planning.

THEA 392. PRODUCTION OF THEATRE FOR CHILDREN. (3) *Prerequisites: THEA 371, THEA 372 and THEA 391 or permission of instructor.* A practical application of children's theatre training by means of a traveling children's theatre production company performing on campus and in the surrounding area.

THEA 401. PERIOD STYLES LAB. (3) *Prerequisite: THEA 301 or THEA 371 or permission of instructor.* Intensive, collaborative scenework, focusing on the special demands of analyzing, conceptualizing and performing period plays, with an emphasis on verse drama.

THEA 407. MUSICAL THEATRE WORKSHOP II. (3) *Prerequisite: THEA 307 or permission of instructor.* A continuation of musical theatre study begun in THEA 307, this course offers advanced character study for both songs and scenes in the American musical theatre repertoire from 1920 to present. Repeatable two times for up to nine hours of credit.

THEA 410. PLAYING SHAKESPEARE. (3) *Prerequisite: THEA 301 or permission of instructor.* Advanced acting course focusing on the application of performance and characterization skills in the performance of Shakespearean / Jacobean dramatic literature. Repeatable once for credit.

THEA 412. SPECIAL TOPICS IN ACTING. (3) *Prerequisite: THEA 301.* Topics-based course focusing on a particular area of advanced acting craftsmanship. May be repeated twice for a total of 9 credit hours.

THEA 414. ACTING IV: ADVANCED SCENCE STUDY. (3) *Prerequisite: THEA 301, or permission of instructor.* An advanced acting course focusing on the application of advanced character analysis, characterization and style to intensive scene work. Repeatable twice for credit.

THEA 415. DIRECTING STUDIO. (3) *Prerequisites: THEA 371 and permission of instructor.* Offers advanced stage directing students an opportunity to learn and apply the stage directing skills needed in the rehearsal and performance phases of live theatre production under actual production conditions.

THEA 422. STAGE LIGHTING DESIGN. (3) Lighting equipment is demonstrated and the student is provided practical experience in working with lights for the major productions, at a time other than the class period. Each student will design the lighting for a full-length play.

THEA 424. SPECIAL PROBLEMS IN TECHNICAL THEATRE. (3) Repeatable once with a different topic. A special-problems course for advanced study in the area of technical theatre: scenery, costume, lighting and sound. The topic and project organization are to be submitted by the student and approved by the faculty during the semester prior to the project.

THEA 425. PLAY PRODUCTION IN THE SCHOOLS. (3) Offers practical instruction in the fundamentals of theatrical production at the secondary school level. Emphasis on providing current and future teachers with resource materials and practical solutions to the challenge of producing and directing high quality theatre in the schools.

THEA 430. MUSICAL THEATRE HISTORY. (3) *Prerequisite: THEA 252 or permission of instructor.* Survey of U.S. musical theatre history from the 18th century to the present, with an emphasis on the 20th century to the present.

THEA 431. MUSICAL THEATRE REPERTOIRE. (3) *Prerequisite: THEA 300, MUS 100, MUS 350, or permission of instructor.* A performance-based study of musical theatre repertoire and vocal styles from 1920 to present day using both scripts and scores. Performance work will occur in solo and small group settings. ***Course Fee***

THEA 441. COSTUME DESIGN. (3) *Prerequisite: THEA 319.* An advanced course for theatre majors as well as those interested in understanding the concept of costuming. Emphasis is placed upon the historical and practical aspects of theatrical costume design.

THEA 455. AMERICAN DRAMA. (3) *Prerequisites: ENG 100 and ENG 200 or any other course in Colonnade F-AH.* This course deals with the development of American drama from colonial productions to present-day plays. Equivalent to ENG 455.

THEA 459. MODERN DRAMA. (3) *Prerequisites: Colonnade F-AH.* A selected study of dramatic literature since Ibsen, with emphasis on evolving developments and trends in world theatre. Equivalent to ENG 459.

THEA 499. STUDIES IN BRITISH THEATRE. (3) A study of the British theatre highlighted by a tour to England and viewing of representational plays of the English theatre, including visitations to supplementary historical and cultural sites.

UC / UCC – UNIVERSITY COLLEGE
SCHOOL OF PROFESSIONAL STUDIES

UC 100. COLLEGE AND CAREER DEVELOPMENT SEMINAR. (1) Investigation of academic and career choices and the relationship between the two. Open only to non-degree seeking students prior to high school graduation. (Grading: Pass / Fail)

UC 175 / UCC 175C. UNIVERSITY EXPERIENCE. (3) *Special Requirements: For students with fewer than 36 semester hours or permission of instructor.* Topics include: Critical thinking, information and technology literacy, exploration of majors and careers, study skills, personal development and campus resources information.

UC 176 / UCC 176C. SPECIAL TOPICS. (1) *Prerequisite: Permission of instructor.* Exploration of a particular topic; varies by instructor and section. Repeatable for a maximum of 3 hours. (Grading: Pass / Fail)

UCC 200C. INTRODUCTION TO AMERICAN ACADEMIC CULTURE. (3) Open to international non-native / English-speaking students with graduate student status; or with instructor permission. A course for international non-native / English-speaking-graduate students to strengthen skills in academic English and to assist their acclimation to American academic culture. May not be applied toward completion of any graduate program.

UCC 250C. SEMINAR IN PEER MENTORING. (2) *Prerequisite: UC 175 or UCC 175C equivalent or sophomore class standing (30 hours) or instructor permission.* An introduction to effective mentoring techniques and leadership skills, including an examination of mentoring and leadership theories and styles. (Grading: Pass / Fail)

UCC 251C. PRACTICUM IN PEER MENTORING. (1) *Prerequisites: UCC 250C and instructor permission.* Supervised mentoring experience in an appropriate first-year student setting. Students may repeat this course up to a maximum of three credit hours. (Grading: Pass / Fail)

UC 400. FACULTY-MENTORED UNDERGRADUATE STUDENT RESEARCH EXPERIENCE. (1) *Prerequisites: Award of FUSE (Faculty Undergraduate Student Engagement) Grant from the Office of Academic Affairs and instructor permission.* Students participate in a semester-long research / creative activity experience mentored by a faculty member, which is expected to lead to a presentation / performance of the research / creative work at an appropriate venue at a later date. Participants must also attend an orientation session and a follow-up session sponsored by the Office of Scholar Development. Repeatable up to two times for a maximum of three credit hours.

UM – WATER UTILITIES MANAGEMENT
DEPARTMENT OF GEOGRAPHY AND GEOLOGY

UM 101. WATER UTILITY MANAGEMENT. (3) Overview of water and wastewater utility activities and functions leading to professional designation in utility management.

UM 205. WATER UTILITY ORGANIZATION, REGULATION AND LAW. (3) *Prerequisite: UM 101.* Overview of the organization, structure, and legal aspects of water and wastewater utilities.

UM 215. WATER UTILITY FINANCE AND ADMINISTRATION. (3) *Prerequisite: UM 101.* Overview of the financial and administrative aspects of water and wastewater utilities.

UM 225. HUMAN RESOURCE MANAGEMENT FOR WATER UTILITIES. (3) *Prerequisite: UM 101.* Overview of the staffing, compensation, and human resource utilization aspects of water and wastewater utilities.

UM 235. WATER UTILITY MANAGEMENT AND HUMAN RELATIONS. (3) *Prerequisite: UM 101.* Overview of the management and human relations aspects of water and wastewater utilities including board / manager, employee, public, and other utility relations.

UM 245. MODERN TECHNOLOGY AND WATER UTILITY MANAGEMENT. (3) *Prerequisite: UM 101.* Overview of the essential functions of public drinking water and wastewater utilities focusing on the emerging technologies and evolving legislation that drive quality and quantity issues.

UM 290. INTERNSHIP: UTILITY MANAGEMENT. (3) *Prerequisite: WTTI 200. Requires placement by the WTI Program Coordinator and instructor's permission.* Internship in water / wastewater management. May be paid or unpaid. Coordination required via WTI Program Coordinator. May be repeated one time for credit.

UX – USER EXPERIENCE
DEPARTMENT OF COMMUNICATION

UX 320. USER EXPERIENCE DESIGN. (3) *Prerequisites: AD/SJB 210 with a grade of "C" or better, or permission of instructor.* Integrates research, design and creative ideation to produce effective visual interactive user experiences across multiple media platforms. ***Course Fee***

UX 330. INTERACTIVE DESIGN. (3) *Prerequisite: AD/SJB 210 with a grade of "C" or better or instructor permission.* Exploration into the design process and techniques for creating interactive experiences. Encompasses information architecture, usability, front-end programming, design literacy, as well as applied user-experience design. Equivalent to SJB 330.

UX 340. PROGRAMMING FOR MEDIA PLATFORMS. (3) *Prerequisite: AD/SJB 210 with a grade of "C" or better or permission of instructor.* Introduction to concepts, principles, and skills required to code and program media platforms. Explores modern markup languages and content management systems. No programming experience required. Equivalent to SJB 340. ***Course Fee***

UX 350. PROGRAMMING FOR DESIGNERS. (3) *Prerequisites: UX 320, SJB 330 and SJB 340; or permission of instructor.* An advanced interactive coding course utilizing markup languages required for control of interactive media products and user experiences. ***Course Fee***

UX 400. ADVANCED INTERACTIVE DESIGN. (3) *Prerequisites UX 320, UX 330/SJB 330, and UX/SJB 340, all with a grade of "C" or better, or permission of instructor.* Explores advanced CSS3, methods of scripting, use of forms and the implementation of embedded media, with a focus on strategic user design and information architecture. ***Course Fee***

UX 410. PORTFOLIO. (3) *Prerequisite: UX 400 or permission of instructor.* Students collaborate to research, create and promote websites and/or applications for commercial and non-commercial projects. Synthesizes all elements of user-experience design and branding. Equivalent to AD 410. ***Course Fee***

WFA– WORKFORCE ADMINISTRATION
SCHOOL OF PROFESSIONAL STUDIES

WFA 300. WORKFORCE ADMINISTRATION AND PRACTICE. (3) A foundational study of systems management and technology from theoretical, managerial and practical perspectives.

WFA 346. WORKFORCE RESOURCE DEVELOPMENT. (3) An introduction to the principles and concepts of business resources development and management. Emphasis on developing strategic advantage through deployment of appropriate systems.

WFA 347. WORKFORCE LINKAGE AND APPLICATIONS. (3) Introduction to telecommunications, network, and related system issues and applications in an organizational setting.

WFA 348. WORKFORCE STRUCTURE. (3) An introduction to the various system architectures common to modern business systems.

WFA 443. WORKFORCE PLANNING AND ASSESSMENT. (3) Examination of tools and systems used to support strategic planning and decision making.

WFA 444. WORKFORCE OPERATIONS AND CONTROL. (3) Management of the organization's data resources and information flow, including: project management, systems planning, control and operations.

WFA 446. WORKFORCE REPORTING AND DEVELOPMENT. (3) Examination of security and risk management in organizational systems. Cost-benefit issues, access, availability and efficiency will be analyzed.

WFA 447. WORKFORCE PROCESS AND TECHNOLOGIES. (3) Examination of electronic commerce systems, processes and technologies, and how such systems may be used to develop competitive advantage.

WTTI – WATER / WASTEWATER TECHNOLOGY
DEPARTMENT OF GEOGRAPHY AND GEOLOGY

WTTI 200. WATER SUPPLY AND WASTEWATER CONTROL. (3) This course is designed to familiarize the student with water supply and wastewater control. Emphasis is on the operational aspects of water supply, water distribution, wastewater collection, and wastewater treatment and disposal. Upon completion, students should be able to apply technical concepts and principles of water supply and wastewater control.

WTTI 201. HYDROLOGY FOR WATER OPERATIONS. (.5) The properties, distribution, and circulation of water as it moves through the atmosphere, across and below the earth's surface, with emphasis on water and wastewater operations. Topics include the hydrologic cycle, groundwater, rainfall, droughts, and volume and flow.

WTTI 202. DRINKING WATER SOURCES, QUALITY AND STANDARDS. (.75) Examination of sources of drinking water, including identification of the various types and courses of contaminants in natural and artificial water systems, and standards used to establish drinking water quality.

WTTI 203. INTRODUCTION TO DRINKING WATER TREATMENT. (.5) Introduction to the processes and equipment used to create safe drinking water, including treatment at the source, preliminary treatment, and purification.

WTTI 204. INTRODUCTION TO WASTEWATER TREATMENT. (.5) Introduction to the equipment, structures, and processes used in the treatment of wastewater. Examines various legislation and regulations pertaining to wastewater treatment and effluent standards.

WTTI 205. INTRODUCTION TO DRINKING WATER DISTRIBUTION. (.5) Introduction to the equipment and structures used in drinking water transmission and distribution systems. Topics include system design and maintenance, the use of centrifugal pumps and water mains, and computer applications.

WTTI 206. INSTRUCTION TO WASTEWATER COLLECTION. (.5) Introduction to the equipment, structures, and design of wastewater collection systems. Topics include the layout and construction of sanitary sewers, lift stations, infiltration and inflow, and treatment methods.

WTTI 210. WATER TREATMENT PROCESSES. (3) *Prerequisite: WTTI 200.* This course is designed to train prospective water treatment plant operators and managers in the practical aspects of operating and maintaining water treatment plants, with emphasis on the use of safe practices and procedures. Students will learn how to safely operate and maintain coagulation, flocculation, sedimentation, filtration, and disinfection processes. They will also learn how to control tastes and odors in drinking water, control corrosion to meet the requirements of the Lead and Copper Rule, perform basic water laboratory procedures, and solve arithmetic problems commonly associated with water treatment plant operations.

WTTI 211. WASTEWATER TREATMENT PROCESSES. (3) This course is designed to train prospective wastewater treatment plant operators and managers in the practical aspects of operating and maintaining wastewater treatment plans, with emphasis on the use of safe practices and procedures. Students will learn how to safely operate and maintain racks, screens, comminutors, sedimentation tanks, trickling filters, rotating biological contractors, package activated sludge plants, oxidation ditches, ponds, and chlorination facilities. Students will also learn how to analyze and solve operational problems and how to perform mathematical calculations relating to wastewater treatment process control.

WTTI 212. WATER DISTRIBUTION AND WASTEWATER COLLECTION SYSTEMS. (3) This course is designed to enable students to understand the operation and maintenance of a waterworks distribution system and to familiarize students with the components of wastewater collection systems. Overview of design installation, operation, monitoring, maintenance and repair / rehabilitation of sewer pipelines, pump stations and related facilities.

WTTI 213. BASIC DRINKING WATER TREATMENT PROCESSES. (.75) *Prerequisite: WTTI 203.* The effects of characteristics of water that hinder quality and treatment techniques which improve water quality. Topics include fluoridation, and the treatment and control of iron, manganese, and hard water.

WTTI 214. COAGULATION AND FLOCCULATION PROCESSES IN WATER TREATMENT. (.5) *Prerequisite: WTTI 203 or 204.* Examination of the processes that remove suspended solids from drinking water and wastewater. Topics include chemicals used, rapid-mix facilities, flocculation facilities, regulations, dosage control, safety precautions, and record keeping.

WTTI 215. SEDIMENTATION BASINS AND CLARIFIERS IN WATER TREATMENT. (.5) *Prerequisite: WTTI 203 or 204.* Course outlining the use sedimentation processes in water treatment. Topics include equipment and structures utilized in the process, operation, other clarification processes, and record keeping.

WTTI 216. WATER FILTRATION PROCESSES. (.5) *Prerequisite: WTTI 203 or 204.* Equipment, structures, and operational factors used in filtration systems for water and wastewater treatment facilities. Topics include approaches to filtration, gravity filters, pressure filtration, regulations, safety precautions, and record keeping.

WTTI 217. WATER DISINFECTION PROCESSES. (1) *Prerequisite: WTTI 203 or 204.* Equipment, structures, and processes used during the disinfection process in water and wastewater treatment. Topics include chlorination processes, other oxidant processes, disinfection regulations, control tests, safety precautions and record keeping.

WTTI 220. CALCULATIONS AND HYDRAULICS FOR WATER. (3) *Prerequisite: WTTI 200.* This course is designed to provide the student with an understanding of the mathematical principles and practical hydraulic design related to water supply. Topics include the treatment and distribution of water. Study includes solving problems related to treatment systems including hydraulic volumes, dimensional analysis, calculations and chemical dose rates as it relates to water treatment and distribution. Provides information and procedures necessary to predict and manipulate the hydraulics of water transmission. The primary work assignments involve the reading and using of hydraulic principles and then applying them in real-life case analysis. Upon completion, students should be able to apply principles of mathematics and hydraulics systems to water management practices.

WTTI 221. CALCUATIONS AND HYDRAULICS FOR WASTEWATER AND STORMWATER. (3) *Prerequisite: WTTI 220.* This course is designed to provide the student with an understanding of the mathematical principles and practical hydraulic design related to wastewater and stormwater control. Topics include the collection and treatment of domestic and industrial wastewater, wastewater collection and stormwater. Study includes solving problems related to treatment systems including hydraulic volumes, dimensional analysis, primary and secondary sewage treatment, calculations and chemical dose rates as it relates to wastewater and stormwater technology. Provides information and procedures necessary to predict and manipulate the hydraulics of wastewater and stormwater collection. The primary work assignments involve the reading and using of hydraulic principles and then applying them in a real-life case analysis. Upon completion, students should be able to apply principles of mathematics and hydraulic systems to wastewater and stormwater management practices.

WTTI 222. WATER AND WASTEWATER INSTRUMENTATION AND CONTROL. (3) *Prerequisite: WTTI 200.* This course focuses on the basic fundamentals of instrumentation applicable to water and wastewater management. The application, maintenance, and calibration of instruments in water and wastewater systems are emphasized. Upon completion, students should be able to read, calibrate and maintain mechanical, electrical, hydraulic, and pneumatic sensing equipment; and indicating, recording, and control equipment.

WTTI 223. BASIC CALCULATIONS FOR WATER OPERATIONS. (1.25) Introduction to calculations used by operators to determine load, demand, and other quantities critical to water and wastewater operations. Topics include per capita water use, domestic water use based on household fixture rates, water use per unit of industrial product produced, demand analysis, and load estimation.

WTTI 224. BASIC HYDRAULICS FOR WATER OPERATIONS. (1) Basic hydraulic concepts and calculations necessary for operating water and wastewater systems. Topics include basic properties of fluids, pressure and force, head and head loss, pumping calculations, flow, thrust control, and computer applications.

WTTI 225. BASIC HYDRAULICS IN DRINKING WATER DISTRIBUTION NETWORKS. (.5) *Prerequisites: WTTI 223 and 224.* Basic hydraulic concepts driving the planning, design, construction, and operation of a pressurized network.

WTTI 226. WATER CHEMISTRY. (3) *Prerequisite: WTTI 200.* This course is designed to explore basic chemical concepts and principles such as elements, compounds, states of matter and reactions that are applicable to evaluating and regulating water quality and applies them to water and wastewater treatment. Students also examine laboratory techniques, equipment, quality assurance, and recordkeeping and reporting.

WTTI 227. BASIC HYDRAULIC CONCEPTS IN WASTEWATER COLLECTION SYSTEMS. (.5) *Prerequisites: WTTI 223 and 224.* Basic hydraulic concepts driving the planning, design, construction, and operation of wastewater collection systems. Topics include the function and operation of open channel and gravity flow collection system networks.

WTTI 230. ADVANCED WATER TREATMENT PROCESSES. (3) *Prerequisite: WTTI 210.* This course is a continuation of WTTI 210 and is designed to train prospective water treatment plant operators and managers in the practical aspects of operating and maintaining water treatment plans, with emphasis on the use of safe practices and procedures. Information is presented on drinking water regulations (including the Safe Drinking Water Act), iron and manganese control, fluoridation, softening, trihalomethanes, demineralization, handling and disposal of process wastes, maintenance, instrumentation, and advanced laboratory procedures.

WTTI 231. ADVANCED WASTEWATER TREATMENT PROCESSES. (3) *Prerequisite: WTTI 211.* This course is a continuation of WTTI 211 and is designed to train prospective wastewater treatment plant operators and managers in the practical aspects of operating and maintaining wastewater treatment plans, with emphasis on the use of safe practices and procedures. Topics covered include conventional activated sludge processes, sludge digestion and solids handling, effluent disposal, plant safety and good housekeeping, plant and equipment maintenance, laboratory procedures and chemistry, use of computers of plant operation and maintenance, analysis and presentation of data, and records and report writing. Students will also learn how to analyze and solve operational problems and how to perform the mathematical calculations relating to wastewater treatment process control.

WTTI 232. WASTEWATER MICROBIOLOGY. (.5) *Prerequisite: WTTI 204.* Bacteria and other microscopic organisms in wastewater, the equipment and structures used to grow or remove microorganisms, and the role microorganisms play in the breakdown of waste material.

WTTI 233. NATURAL WASTEWATER TREATMENT SYSTEMS. (.5) *Prerequisite: WTTI 204.* Examination of the equipment, structures, and operating factors in natural wastewater treatment systems.

WTTI 234. BASIC INFRASTRUCTURE FOR WATER DISTRIBUTION & WASTEWATER. (1) *Prerequisite: WTTI 205 or 206.* Basic components of drinking water distribution systems and wastewater collection systems, including equipment, structures, and operating factors affecting the planning, design, and construction.

WTTI 235. WATER DISTRIBUTION SYSTEM COMPONENTS. (.75) *Prerequisite: WTTI 205.* Introduction to the components used in drinking water distribution systems and the factors involved in planning, operating, and maintaining them. Topics include hydrants, meters, cross-connections, backflow control methods and devices, and records and reporting.

WTTI 236. WATER DISTRIBUTION SYSTEM OPERATION AND MAINTENANCE. (1.25) *Prerequisite: WTTI 205.* Examination of the procedures used in the operation and maintenance of water distribution networks. Topics include pipe shipment and handling, excavation, laying pipe, pressure and leak testing, flushing and disinfection, inspections, site restorations, water main installation, maintaining water quality, maintaining flow and pressure, meter locations, service lines, and thawing.

WTTI 237. WASTEWATER COLLECTION SYSTEM ASSESSMENT AND REPAIR. (.5) *Prerequisite: WTTI 206.* Procedures used in the operation and maintenance of wastewater collection systems. Topics include operation and maintenance, inspecting and testing components, pipeline and manhole cleaning and inspection methods, and underground repair.

WTTI 238. WASTEWATER COLLECTION SYSTEMS MANAGEMENT. (.5) *Prerequisite: WTTI 206.* Management concepts and considerations in the wastewater industry. Topics include operation and maintenance, information management, system design, construction and assessment, public policy and community relations, budgeting and financial planning, and safety and security.

WTTI 239. STORMWATER MANAGEMENT FOR OPERATORS. (.5) *Prerequisite: WTTI 206.* Control and mitigation of stormwater runoff via wastewater treatment facilities. Topics include estimating stormwater runoff, storm sewer systems, best management practices, floodplains, control of combined sewer overflows, controlling constituent discharges, and computer applications.

WTTI 240. MOTORS, ENGINES, AND CONTROLS IN WATER OPERATIONS. (.5) Investigation of motors, engines, and controls used in water and wastewater treatment operations. Topics include electric motors, combustion engines, electrically driven pumps, motor and engine records, and motor and engine safety.

WTTI 241. INTRODUCTION TO INSTRUMENTATION & CONTROL SYSTEMS IN WATER. (.75) Introduction to the instrumentation and control systems used in water and wastewater operations. Topics include instrumentation, telemetry, control systems, Supervisory Control and Data Acquisition (SCADA) system components, operation and maintenance, flow, pressure, and level measurement, and automation.

WTTI 242. BASIC ELECTRICITY FOR WATER OPERATIONS. (.5) Investigation of the basic concepts and applications of electricity in water and wastewater operations.

WTTI 243. FLOWERMETERS, SENSORS AND PROCESS MEASUREMENTS. (.5) Investigation of the equipment and techniques used to measure flow and other process information in water and wastewater operations.

WTTI 244. AUTOMATIC PROCESS CONTROL FOR WATER OPERATIONS. (.75) *Prerequisite: WTTI 243.* Analysis of the equipment and procedures used in the automated control processes in water or wastewater facilities.

WTTI 249. BASIC WATER CHEMISTRY FOR OPERATORS. (1) Assessment of the essential chemical properties of water and how they can affect water quality.

WTTI 250. DRINKING WATER SAMPLING AND ANALYSIS. (1) *Prerequisite: WTTI 249.* Study of techniques of sampling and laboratory testing of drinking water resources.

WTTI 251. WASTEWATER SAMPLING AND ANALYSIS. (1) *Prerequisite: WTTI 249.* Investigation of the procedures for effectively sampling and analyzing wastewater. Topics include operating laboratory equipment, analyzing in accordance with NPDES permit requirements, and recording laboratory results.

WTTI 252. WATER OPERATOR SAFETY. (.75) Basic process of ensuring a safe working environment for water and wastewater operators. Topics include inspections, procedures, and programs which ensure safety in the workplace.

WTTI 253. WASTEWATER REGULATIONS. (.5) Analysis of all major forms of regulation that apply to the wastewater industry. Topics include the evolution of the Clean Water Act, pretreatment program requirements, permit compliance, safety regulations, and the National Pollutant Discharge Elimination System (NPDES).

WTTI 254. CORROSION CONTROL IN WATER OPERATIONS. (.5) *Prerequisite: WTTI 203.* Investigation of the methods and techniques used to minimize corrosion in water treatment facilities. Topics include corrosion control methods, facilities, regulations, record keeping, and safety precautions.

WTTI 255. ION EXCHANGE PROCESSES IN WATER TREATMENT. (.5) *Prerequisite: WTTI 203.* Process and equipment used in ion exchange treatment of water. Topics include ion exchange softening, operation of ion exchange processes, and record keeping.

WTTI 256. ADSORPTION PROCESSES IN WATER TREATMENT. (.5) *Prerequisite: WTTI 203.* Analysis of the process and equipment used in the adsorption process in water treatment. Topics include the principles of adsorption, adsorption facilities, regulations, operating procedures, safety precautions, and record keeping.

WTTI 257. AERATION PROCESSES IN WATER TREATMENT. (.5) *Prerequisite: WTTI 203.* Investigation of the process and equipment used during the aeration process in water treatment. Topics include process description, types of aerators, regulations, control tests, operating problems, safety precautions, and record keeping.

WTTI 258. MEMBRANE PROCESSES IN WATER TREATMENT. (.5) *Prerequisite: WTTI 203.* Exploration of the processes and equipment used in membrane filtration. Topics include microfiltration facilities, pleated membrane facilities, nanofiltration and reverse osmosis facilities, operating programs, and record keeping.

WTTI 259. INTRODUCTION TO RESIDUALS MANAGEMENT IN WATER OPERATIONS. (.5) *Prerequisite: WTTI 203 or 204.* Equipment, structures, and processes associated with residual management in water and wastewater systems. Topics include sludge calculations, removal of sludge by traditional sedimentation processes, softening sludge, and solids separation technology.

WTTI 260. SUSPENDED GROWTH SYSTEMS IN WASTEWATER OPERATIONS. (.5) *Prerequisite: WTTI 204.* Design and processes of suspended growth systems in wastewater treatment facilities. Topics include the operation of activated sludge plants, controlling biomass inventory, energy use and saving opportunities, aerobic digestion, and solids handling.

WTTI 261. ATTACHED GROWTH SYSTEMS IN WASTEWATER OPERATIONS. (.5) *Prerequisite: WTTI 204.* Facilities and processes used in attached growth systems. Topics include trickling filters, biological filters, rotating biological contactors, and operation of attached growth systems.

WTTI 262. NUTRIENT REMOVAL PROCESSES IN WATER OPERATIONS. (1) *Prerequisite: WTTI 203 or 204.* Equipment, structures, and design factors used in nutrient removal. Topics include nutrients and their effects on the environment, regulations, structured process models for nutrient removal, troubleshooting for full-scale nutrient removal facilities, and aquatic natural treatment systems.

WTTI 263. INDUSTRIAL WASTEWATER PRETREATMENT PROCESSES. (.5) *Prerequisite: WTTI 204.* Equipment, structures, and process involved in pretreatment of wastewater. Topics include regulations governing industrial pretreatment, troubleshooting, and maintaining pretreatment operations.

WTTI 264. WASTEWATER RESIDUALS MANAGEMENT. (.5) *Prerequisite: WTTI 259.* Equipment, structures, and processes used in wastewater residuals management. Topics include the stabilization, thickening, dewatering, drying, and composting of sludge, and biosolids reduction processes.

WTTI 265. RECORD KEEPING AND REPORTING FOR WATER OPERATIONS. (.5) *Prerequisite: WTTI 203 or 204.* Techniques for keeping effective records and reports for a water or wastewater utility. Topics include computer recordkeeping systems, equipment and maintenance records, plant operations data, procurement and inventory records, personnel records, and disposition of plant and system records.

WTTI 266. CUSTOMER SERVICE AND PUBLIC RELATIONS IN WATER OPERATIONS. (.5) *Prerequisite: WTTI 203 or 204.* Analysis of methods by which water and wastewater and wastewater utilities deal with customers and the public. Topics include the roles of water distribution personnel and informed employees in public relations, formal public relations programs, and general principles of customer inquiries and complaint investigation.

WTTI 291. INTERNSHIP: UTILITY OPERATIONS. (3) *Prerequisite: WTTI 200. Requires placement by the WTI Program Coordinator and instructor's permission.* Internship in water / wastewaters operations. May be paid or unpaid. May be repeated one time for credit. (Grading: Pass / Fail)

Special Programs & Divisions

Mahurin Honors College

Professor Michael Smith, Interim Executive Director
Dr. Christopher Keller, Associate Director
HCIC Building
Phone: (270) 745-2081; Fax: (270) 745-3568
Email: Honors@wku.edu
Website: www.wku.edu/honors

The Dixie and Peter Mahurin Honors College at WKU exists to provide high-achieving students with enriched courses and other opportunities for intellectual growth. The Honors curriculum is designed to encourage students to expand their intellectual curiosity and worldview, as well as to develop their abilities to read with insight, think logically and abstractly, write with precision, and engage in original scholarly research or creative activity. Participation in the Mahurin Honors College thus complements students' academic preparation in their major and minor disciplines, and proves to be an asset when applying for graduate/professional schools.

Mahurin Honors College		Honors in the Major	
HON 251	**3 hrs.**	**Minimum upper-division Honors credit in First Major** (must include at least 3 hours of capstone coursework and no more than 6 hours of Honors lower-division credit)	**12 hrs.**
Honors Lower-Division	**9 hrs. of Colonnade Courses**		
Honors 300: Colloquium or HON 275: Internship (can be replaced by 3 hrs. of Honors elective in any level/major)	**3 hrs.**	**Honors Elective** (any level/major)	**6 hrs.**
Honors Upper-Division Electives (at least 3 hrs. in Major)	**6 hrs. of 300-level or above**		
CE/T Proposal Development (HON 402) (Can be replaced by 1 hour of Honors elective of any level/major)	**1 hr.**		
Capstone Experience/Thesis (HON 403 & HON 404) (can be replaced by 6 hrs. of Honors Upper-Division in Major)	**6 hrs.**		
Total Hours	**28 hrs.**	**Total Hours**	**18 hrs.**

The Honors College offers enhanced classes, colloquia and opportunities for independent study and research in an environment that is intellectually challenging as well as tailored to students' individual interests and needs. Honors classes and colloquia are kept small in order to promote interactive learning and free discussion of ideas. The Honors Capstone Experience/Thesis (CE/T) process allows students to work with a faculty mentor on an original, substantive project in their major or minor discipline. Students can, in almost all cases, complete any baccalaureate degree program and the Mahurin Honors College requirements without increasing the number of hours required for graduation.

Admission Requirements—Please see the Prospective Student section of the Mahurin Honors College website for admission requirements.

Honors Curriculum
College Requirements—There are two tracks within the Honors College: the 28-hour Mahurin Honors College track and the 18-hour Honors in the Major track.

Students who complete one of these tracks and graduate with a minimum 3.2 GPA are designated as "Mahurin Honors College" or "Honors in the Major" graduates on their final transcripts. Mahurin Honors College and Honors in the Major graduates also receive medallions to be worn at Commencement and Honors certificates recognizing their achievement. Medallions and certificates are typically presented at a banquet at the end of the spring semester.

Program Features
Honors Classes—Participation in Honors classes is limited to Honors-eligible students, and enrollments are generally restricted to 25 or fewer. Small class sizes and the presence of highly motivated students lead to greater collaborations between students and faculty. Students are encouraged to challenge and debate issues respectfully, and they generally have greater responsibility for and control over how course information is disseminated. Development of research, critical thinking and communication skills is emphasized.

Honors Colloquia—Honors colloquia are interdisciplinary in nature, and emphasize student-directed learning. Colloquia deal with issues of contemporary, historical or intellectual significance, often with ethical implications to be weighed and debated. Students participate in and lead discussions on various aspects of the broad topic, and they select specific issues on which to base analytical writing projects.

Honors Augmented Credit—Students enrolled in non-Honors upper-division courses may develop a contract with the faculty member, academic department, and Mahurin Honors College to receive Honors credit. This allows students to more fully pursue subjects of particular interest or importance to their academic and career goals.

Honors Capstone Experience/Thesis—The Honors Capstone Experience/Thesis (CE/T) is a sustained original research or creative activity in a student's major or minor discipline. The nature and form of the CE/T is open, to be determined based on the interests and background of the student and CE/T advisor. Past CE/T projects have included library and laboratory research projects, short story and poetry collections, computer programs, and original musical compositions. Upon completion, the title of the CE/T appears on the student's official transcript.

Honors Self-Designed Studies—The Honors self-designed studies major and minor permit Honors students with specific goals or interdisciplinary interests to design unique programs of study when WKU's existing programs do not adequately fit the student's needs. The self-designed major requires at least 48 hours when used as a major that does not require a 2nd major or minor, 36 hours when used as a first major, and 30 hours when used as a second major; the area study minor requires 24 hours.

Honors Priority Registration—Returning Honors students in good standing may enroll during the Priority Registration period. Honors students must attend an Honors Advising appointment each academic year to be eligible for priority registration. Priority registration allows students greater flexibility and choice in planning their schedule. Incoming students register as part of the Topper Orientation Program (TOP) process.

Honors Housing—Honors students may choose to live (space permitting) in an Honors co-educational residence hall. A request for Honors housing must be indicated on a student's housing application.

Honors Development Grants—Students may apply to the Mahurin Honors College for grants to defray costs associated with Honors Capstone Experience/Thesis projects, other undergraduate research, or travel that advances their career training or educational experience. Grants may be used to defer costs associated with attendance at professional meetings.

Travel Abroad Grants—Students may apply to the Mahurin Honors College for grants to defray costs associated with study abroad programs. Funding is determined partially by the length of the program.

Office of Scholar Development

Dr. Audra Jennings, Director
2039 HCIC
Phone: (270) 745-5043
Email: osd@wku.edu
Website: www.wku.edu/osd/

The Office of Scholar Development (OSD) works with students on all WKU campuses and in all majors and degree programs, challenging them to dream big and working with them to make those dreams attainable. OSD staff members help students apply for nationally competitive scholarships by assisting them in the process of finding the right programs, making important contacts, developing strong proposals, and revising numerous drafts. Between Fall 2013 and Spring 2015, OSD helped WKU students to win over $1.7 million in external scholarship funding. Beyond the dollars and cents, national scholarships help students to study abroad, conduct research, complete undergraduate and graduate degrees, and change lives.

We are located on the second floor of the Dixie and Peter Mahurin Honors College/International Center on Normal Street. Please call OSD at (270) 745-5043 for more information or to schedule an appointment.

The Carol Martin Gatton Academy of Mathematics and Science in Kentucky

Dr. Lynette Breedlove, Director
Phone: (270) 745-6565; Fax: (270) 745-2987
Email: academy@wku.edu
Website: www.wku.edu/academy

WKU houses the Carol Martin Gatton Academy of Mathematics and Science in Kentucky. The mission is to offer a residential program for bright, highly motivated Kentucky high school students who have demonstrated interest in pursuing advanced careers in science, technology, engineering, and mathematics. The Gatton Academy is one of fifteen state-sponsored residential schools with an emphasis in science and mathematics.

The goal of the Gatton Academy is to enable Kentucky's exceptional emerging scientists and mathematicians to learn in an environment that offers advanced educational and research opportunities, preparing them for leadership roles in the Commonwealth of Kentucky.

The Gatton Academy also seeks to provide its students with the companionship of peers; to encourage students to develop the creativity, curiosity, reasoning ability, and self-discipline that lead to independent thought and action; and to aid students in developing integrity that will enable them to benefit society.

Each year the Gatton Academy admits Kentucky students who apply during their sophomore year and are awarded admission based on standardized test scores, grades, responses to essay questions, recommendations, and personal interviews. Instead of spending their junior and senior years in traditional high schools, students enroll in the Gatton Academy and live in a uniquely dedicated Gatton Academy residence hall, taking courses offered by WKU. Their classmates are fellow Gatton Academy students and WKU undergraduate students. At the end of two years, Gatton Academy students will have earned a minimum of 60 college credit hours in addition to completing high school.

International Student Office

Ms. Stephanie Sieggreen,
Executive Director
International Enrollment Management
Phone: (270) 745-4857
Email: iso@wku.edu
Website: www.wku.edu/international

The International Student Office (ISO) serves WKU's international students, visiting scholars, and their families through immigration services, cultural advising, advocacy, cross-cultural programming, and training.

The Office welcomes and assists international students and visiting scholars through advisement, programming, and support services. As the primary point of contact for current students and prospective visiting scholars, ISO generates immigration documents necessary for them to maintain the appropriate F-1 or J-1 visa that is required to study or work at Western Kentucky University. ISO is responsible for ensuring WKU's compliance with U.S. federal laws and regulations that pertain to immigration requirements of the U.S. Department of Homeland Security (DHS), the U.S. Department of State (DOS), and other federal agencies. ISO serves as WKU's official liaison and primary point of contact for these federal offices. Based on their directives and regulations, ISO advises students and visiting scholars on matters related to maintaining and or changing immigration statuses, transferring to and from WKU, student and scholar visa issues, work authorization, and other student support matters. Additionally, IEM/ISO serves as the liaison and point of contact for sponsoring agencies, their students, and the WKU community.

Once students and visiting scholars have arrived on campus, ISO offers orientation, workshops and programming to promote acculturation, adaptation, and personal adjustment to WKU and the Bowling Green community. Additionally, ISO works closely with several student-run organizations, such as the Council of International Student Organizations, to help foster interactions between domestic and international students and encourage the various international student organizations to collaborate on projects. The ISO also manages the Zuheir Sofia International Student Diplomat Program which provides mentoring to current and prospective international students to assist them in achieving their personal, educational, and professional goals.

Office of International Programs

John Sunnygard, Associate Provost for Global Learning & International Affairs
HCIC Building
Phone: (270) 745-5334
Email: internationalization@wku.edu
Websites: www.wku.edu/oip/
www.wku.edu/iyo

The Office of International Programs (OIP) leads initiatives and develops programs to help prepare students to be "productive, engaged leaders in a global society."

To maintain a strong international profile that is recognized both nationally and globally for its excellence, OIP advocates for and facilitates the strengthening of the international dimensions of the curriculum; the development of innovative ways to provide globally educative experiences both at home and abroad; the development of active and sustainable international agreements; the pursuit of innovative grants; and the creation of community partnerships that center on quality of life issues and economic development for the community, region, and state.

OIP develops and coordinates programming and events that foster WKU's international aspirations. OIP sponsors the *International Year Of…* program, a unique, annual initiative designed to internationalize the WKU campus and surrounding community through a yearlong exploration of a single world region or country. For the *International Year Of… (IYO)* program, OIP partners with academic and non-academic units to create opportunities for students, faculty, staff and the larger community to engage with and explore a country's diverse cultural, historical, political, and geographical landscapes—all without a passport. Following consecutive spotlights on Ecuador (2014-15), South Africa (2015-16), and South Korea (2016-17), the IYO will turn its focus to Bosnia and Herzegovina for the 2017-18 academic year. Future IYO countries are: Cuba (2018-19); Kenya (2019-20). *International Education Week*, another OIP-led program occurring every fall, is a week-long celebration that provides opportunities for students, faculty, staff, and community members to engage in intercultural dialogue and experience firsthand diverse cultures and perspectives.

WKU maintains active partnerships with more than fifty-five universities and organizations around the world, creating opportunities for student exchange, faculty mobility, collaborative research, and global engagement. WKU is a founding member of several international education organizations and an active participant in major international education associations.

Study Abroad & Global Learning

HCIC Building
Phone: (270) 745-5334
Email: study.abroad@wku.edu
Website: www.wku.edu/studyabroad/

The Office of Study Abroad & Global Learning (SAGL) serves the WKU community by engaging students, faculty, and staff in diverse educational and cultural experiences through faculty-led, exchange, consortia, and other study abroad opportunities.

Study abroad programs at WKU offer students the opportunity to incorporate international academic, professional, and cross-cultural experiences into their education. WKU offers a wide variety of international education opportunities for a range of academic disciplines and budget needs. Students can choose to study, intern, volunteer, student teach, or conduct research abroad during any academic term.

Students who wish to study abroad should start planning early in their academic career to ensure the most affordable and academically enriching experience. When planning a study abroad experience, each student should be aware of the university's academic requirements and regulations contained in this catalog in the chapter "Academic Information." It is recommended that students work closely with their academic departments and the SAGL office to carefully select a program that meets their academic needs, fulfilling specific degree requirements through courses offered on the program.

WKU students who participate in a study abroad program may choose to earn an "Emphasis in Global Studies" designation, which can be combined with any major, as part of their undergraduate education. For details regarding the requirements, refer to the section about "Global Studies Designation" in this catalog or on the SAGL website.

Types of Study Abroad Programs
WKU students wishing to study in another country have a variety of options from which to choose. These options can be divided into five major categories: short-term faculty-led programs, international student teaching, exchange programs, WKU partner programs, and provider programs. More detailed information on all study abroad options can be found on the SAGL website, but a brief overview of each type of program follows.

- ***WKU Faculty Led Study Abroad Programs***
  Many WKU students who study abroad do so by taking a course in another country on a program personally led by a WKU faculty member. These courses are typically 1-7 weeks in length and carry 3-6 credit hours, and they generally occur during the winter or summer terms.
- ***WKU International Student Teaching***
  Education majors at WKU have the opportunity to spend the final month of their student teaching semester in another country, teaching classes in English at a partner school. This cross-cultural teaching experience fosters global awareness and helps prepare future teachers for working with diverse student populations.
- ***WKU Exchange Programs***
  WKU has formal agreements with more than a dozen institutions of higher education outside the United States. Exchange programs are typically for a semester or an academic year, and they offer students the opportunity to become fully integrated into a foreign university. Shorter-term opportunities exist with some exchange partners. Students are often surprised to learn that studying abroad for a semester on an exchange program costs the same tuition as a semester at WKU at the in-state tuition rate.
- ***WKU Partner Programs***
  WKU has close partnerships with several programs and study abroad consortia including Harlaxton College, Semester at Sea, the Kentucky Institute for International Studies (KIIS), and the Cooperative Center for Study Abroad (CCSA). The two on-campus consortia partners (KIIS and CCSA) offer affordable program options for which students receive WKU credit. Several of the courses offered on WKU partner programs are taught by WKU faculty members.
- ***Provider Programs***
  WKU has affiliation agreements with a variety of study abroad program providers which offer a plethora of short-term, semester, and academic year programs in numerous countries around the world. Students who are unable to find a program that meets their academic needs through faculty-led, international student teaching, exchange programs, or WKU partner programs can certainly find good options through affiliate providers.

Financing Study Abroad
Scholarships and financial aid are available for most study abroad programs. Even the most expensive program can be affordable when students use all of the resources available to them. Students who are eligible for financial aid and/or are receiving scholarships can typically use those awards towards the cost of a study abroad program. The Office of Study Abroad and Global Learning, the Student Financial Assistance Office, and the Office of Scholar Development can help students plan financially for this important investment in their college education.

WKU has created several significant study abroad scholarships to support WKU students who pursue international opportunities. These scholarships include the World Topper Scholarship and the Diversity Abroad Grant (DAG). While the World Topper Scholarship is intended to support any WKU student planning to study abroad, the DAG is intended to provide significant financial support for diverse students. For more information about these and other scholarship opportunities available through WKU and external organizations, visit the SAGL webpage (www.wku.edu/studyabroad).

Safety & Code of Conduct
The safety of our students is of paramount importance. Students are provided with information pertaining to insurance requirements, emergency procedures, and health and safety abroad during the pre-departure process, both in writing through SAGL's online application and enrollment tracking system, and in person at the mandatory pre-departure orientation session. Additional on-site orientation is provided upon arrival in the destination country. Students are also required to register with the U.S. State Department's Smart Traveler Enrollment Program (STEP) prior to departure, which enables the State Department to reach students directly when security-related information is issued or updated. While abroad, WKU students are held to the standards set forth in the university's Student Code of Conduct. The Office of Student Conduct will be notified of any alleged violations of the Student Code of Conduct that occur during an education abroad experience.

English as a Second Language International (ESLI) University Language Center

Dr. T. Ryan Hall, Vice President
Dawn Winters, Director
Phone: (270) 745-8871
Email: Terry.Hall@wku.edu

The ESLI University Language Center on the WKU campus prepares students in academic English for entrance into WKU. Students may enroll and begin study in ESLI courses at any time during the first two weeks of the fall, spring, or summer semesters. Students completing the ESLI program do not require a TOEFL or IELTS to gain admission to WKU.

The ESLI program is an intensive language program with 25 hours of instruction each week in reading, writing, listening, speaking, grammar, and vocabulary. ESLI techniques include cultural context that students need by involving them in academic excursions, conversation partners and recreational activities. ESLI has a caring and empathetic staff that provides a friendly, professional, and individualized learning environment. They also assist students in airport pick-up, banking, and general orientation. All activities are part of the interactive immersion in the ESLI program. Prospective students should contact ESLI directly by email esli@wku.edu for further information and an application.

Fulbright Faculty and Student Programs

Faculty Contact:
Dr. Anthony Harkins
Cherry Hall, Room 218
Phone: (270) 745-3149
Email: Anthony.Harkins@wku.edu

Domestic Student Contact:
Dr. Melinda Grimsley-Smith
Office of Scholar Development;
WKU Honors Center;
Phone: (270) 745-5043
Email: Melinda.Grimsley-Smith@wku.edu

International Student Contact:
Stephanie Sieggreen
Phone: (270) 745-4857
Email: stephanie.sieggreen@wku.edu

The Fulbright international exchange of scholars provides opportunities for selected WKU and foreign university professors to teach and conduct research abroad for up to a full academic year. Interested faculty should contact Dr. Anthony Harkins. Fulbright student grants for study, research, or teaching abroad are available to well-qualified applicants holding a bachelor's degree or the equivalent before the beginning date of the grant. Selection is based on academic record, validity of the proposed study, language preparation, and personal qualifications. Interested students should contact Dr. Melinda Grimsley-Smith, Office of Scholar Development.

Division of Extended Learning and Outreach

Dr. Beth Laves, Associate Vice President for Extended Learning and Outreach
Knicely Conference Center, Office 105
2355 Nashville Road
Bowling Green, KY 42101
Phone: (270) 745-1900; Fax: (270) 745-1903
Email: delo@wku.edu
Website: www.wku.edu/delo

The Division of Extended Learning & Outreach (DELO) at WKU is made up of several units that take the educational resources of WKU to the citizens of Kentucky and around the world. We are the outreach arm of the university, offering both credit and non-credit classes to students of all ages. We partner with University faculty and departments to offer convenient and flexible learning opportunities to students. We work with businesses and organizations to provide customized training, to plan special events, and to develop degree programs that meet their specific needs.

For more details about the services DELO provides, visit our website at wku.edu/delo.

DELO units work both separately and together to support the mission of the University:

- **Academic Outreach** (includes WKU Online, Online Program Services, Online Program Development, DELO Testing Centers, Dual Credit, Cohort Programs, and Summer Sessions/Winter Term
- **WKU Regional Campuses**
- **Continuing & Professional Development** (includes Career & Workforce Development and Lifelong Learning)
- **The Center for Innovative Teaching and Learning**
- **WKU Conference Services**

Academic Outreach

Knicely Conference Center, South Campus Suite 120
Phone: (270) 745-3067
Visit: www.wku.edu/ao

WKU Online
WKU offers flexible pathways to degree attainment, allowing students to earn a complete degree online or choose to take a combination of face-to-face and online courses. Courses are delivered on the web in semester-based Online classes and non-semester based On Demand web classes. Support staff are located in Garrett Conference Center, Office 101.

There are more than 1,700 courses available each year, and over 90 degree programs and certificates at the graduate and undergraduate levels. In addition, there are several degree programs that allow students to complete a significant portion of required courses online, offering additional options for flexibility within their program of study. For a complete list of online degree programs, please visit our website at wku.edu/online. To contact a representative, call (270) 745-5173 or 1-888-4WKUWEB (888-495-8932) or email learn.online@wku.edu.

WKU Online also offers an **On Demand** option that provides flex-paced, asynchronous online courses for students to pursue educational experiences outside the traditional college classroom. WKU On Demand opportunities are offered to help undergraduate and graduate students who, because of distance or time constraints, cannot participate in traditional on-campus or semester-based online courses.

WKU On Demand is uniquely qualified to serve students living across the state, across the country, and around the world. WKU On Demand offers over 100 web courses and WKU faculty teach all courses.

Students may register for on demand courses any day of the year. Students may complete WKU On Demand courses in as little as 7 weeks or take up to 9 months. Admission to the university is not required to enroll in on demand options; however if students intend to pursue a degree, they must be formally admitted. All registrations are considered in-state for tuition purposes. A list of available WKU On Demand courses can be found on our website at wku.edu/ondemand or by viewing WKU's Schedule of Classes and searching by the campus, "On Demand."

To contact a representative, call (270) 745-3815 or 1-800-535-5926 or email ondemand@wku.edu.

Online Program Services (OPS)
Online Program Services provides students with access to support designed to help them succeed in reaching their educational goals. OPS professionals are on staff to answer questions about online degrees and web courses, assist with the admission and course registration process, and connect students to needed resources! Services include an online orientation, library services, research support, an online writing center, and online tutoring. In addition to one-on-one support provided by OPS, live and recorded webinars are also available on a variety of topics. Services are accessible with a single click through the Student Resource Portal at www.wku.edu/online/srp. For additional information on services available and online degree programs, please visit wku.edu/online or call (270) 745-5173.

Online Program Development (OPD)
OPD extends programmatic support to academic departments to facilitate the development and offering of online learning courses and programs. OPD offers marketing and promotion, financial support for online course development, and guidance on state authorization compliance. Using data-driven solutions, OPD serves faculty and supports online courses that have a measurable, positive impact on WKU students. For more information, call (270) 745-5305.

Distance Learning Testing Centers
The DLTC provides testing services to students taking online courses through WKU and other higher education institutions. The centers are certified through the National College Testing Association (NCTA) and adhere to the professional standards and guidelines provided by the organization. Additionally, DLTC administers a number of academic placement and workforce certification exams. For more information, check out our website: wku.edu/testing or contact our office at 270-745-3628.

Dual Credit
Dual Credit is a unit within WKU's Division of Extended Learning and Outreach (DELO) that serves qualified high school students with the opportunity to earn university credit as part of their high school curriculum. The program provides enrichment opportunities to academically talented students who are ready for the challenge of university coursework.

High school administrators recommend students for participation in Dual Credit based on the student's potential for academic success in a college level program; however, it is not a "gifted and talented" program. Students receive both high school and university credit upon successful course completion.

Dual Credit students are registered and enrolled in WKU as a "non-degree seeking student prior to high school graduation." Participation in a Dual Credit course does not guarantee admission to WKU as a "degree-seeking freshman." Grades received in Dual Credit courses are recorded as part of the student's official university transcript with WKU and will transfer to most colleges and universities throughout the United States. Courses are offered at a substantially reduced tuition rate and provide a means of preparing college bound students to make a successful transition to post-secondary education.

Dual Credit partners to provide courses at area high schools and also offers students the opportunity to participate in a variety of online offerings. Western Kentucky University and Dual Credit support the Kentucky Council on Postsecondary Education's Dual Credit policy that supports a seamless path of education and training for students. For more details, visit cpe.ky.gov/policies/.

For more information about WKU Dual Credit, visit wku.edu/dualcredit, call (270) 745-2386, or email dual.credit@wku.edu. Dual Credit is located in the Office of Academic Outreach at the Knicely Conference Center, Room 118.

Summer Sessions and Winter Term
The Division of Extended Learning and Outreach provides administrative support for Summer Sessions and Winter Term. These are optional terms offering short, intensive courses on campus, online, and Study Abroad. Winter and Summer sessions are excellent opportunities for students to move more quickly toward graduation, lightened Fall/Spring semester load, or catch up after changing majors. For more information, check our website wku.edu/summer or wku.edu/winter or contact our office at (270) 745-2478.

Regional Campuses

Western Kentucky University is designated by the Kentucky Council on Postsecondary Education as a regional university that is responsible for the needs of students in the designated service area (DSA), which consists of 27 counties.

Under the direction of the Division of Extended Learning and Outreach (DELO), WKU regional campuses bring the resources of the University to each region, enhance academic offerings with a combination of in-person, online and hybrid delivery formats and provide academic programs to meet the unique needs of each community. Students may qualify for transfer scholarships and financial assistance.

WKU Elizabethtown – Fort Knox Campus

Elizabethtown Campus
610 College Street, CRPEC 130
Elizabethtown, KY 42701
Phone: (270) 706-8870
Email: etown-ftknox@wku.edu
Website: www.wku.edu/etown-ftknox

Fort Knox
31 Warehouse Street,
Building 65
Layaou Hall, Room 103
Fort Knox, KY 40121
Phone: (270) 706-8870
Fax: (270) 745-5079

Hardin County Schools Early College and Career Center (EC3)
200 University Dr.
Elizabethtown, KY 42701
Phone: (270) 706-8870
Fax: (270) 745-3730

In 1964, WKU began offering graduate classes in Elizabethtown for teachers and school administrators within the region. In 1976, WKU partnered with the Army Continuing Education Center to offer classes at Fort Knox. Today, WKU Elizabethtown/Ft. Knox has offices at the Elizabethtown Community and Technical College, at Fort Knox and at the Hardin County Schools Early College & Career Center (EC3).

WKU Elizabethtown-Fort Knox provides students throughout the region with access to a variety of courses and degree programs, as well academic & transfer advising, financial aid counseling, computer lab, writing assistance, testing center, military student services, career & workforce development and other recourses to help them succeed.

WKU Glasgow Campus

500 Hilltopper Way
Glasgow, KY 42141
Phone: (270) 861-6900
Email: glasgow@wku.edu
Website: www.wku.edu/glasgow

In February 1988, WKU officially opened the WKU Glasgow campus, offering college coursework to the citizens of Barren and surrounding counties. Today, WKU Glasgow offers a variety of courses and degree programs through a combination of in-person, online and hybrid delivery formats that meet the unique needs of the community.

WKU Glasgow offers students throughout the region access to a variety of courses and degree programs, as well as academic & transfer advising, financial aid counseling, computer lab, tutoring, writing assistance, testing center, library, military student services, career & workforce development and other recourses to help them succeed.

WKU Owensboro Campus

4821 New Hartford Road
Owensboro, KY 42303
Phone: (270) 684-9797 or (270) 745-5095
Fax: (270) 684-0104
Email: owensboro@wku.edu
Website: www.wku.edu/owensboro

WKU first expanded to the Owensboro/Daviess County region in 1969, offering graduate courses on the Kentucky Wesleyan College and Brescia University. Today, WKU Owensboro offers adult learners and transfer students a variety of courses and degree programs through a combination of in-person, online and hybrid delivery formats that meet the unique needs of the community.

WKU Owensboro offers students throughout the region access to a variety of courses and degree programs, as well as academic & transfer advising, financial aid counseling, computer lab, tutoring, writing assistance, testing center, military student services, career & workforce development and other recourses to help them succeed.

IVS Interactive Video Services: Interactive Video Services (IVS) courses are video conference-based distance courses. IVS technology provides a familiar traditional classroom experience for students, while eliminating the need for travel. IVS courses provide a unique way for full, real-time interaction through the use of microphones and cameras to communicate among two or more of the specially-equipped classrooms located at each of the WKU campus locations. Students from each location actively participate in the course together. For a list of available courses, visit WKU's Schedule of Classes and search by Campus or by Session, "ITV (Interactive TV)." For further information, please call (270) 745-2625.

Center for Innovative Teaching and Learning (CITL)

Garrett Conference Center, Room 104
Phone: (270) 745-6508
Website: www.wku.edu/citl

The Center for Innovative Teaching and Learning (CITL) supports the teaching and learning mission of the university. CITL collaborates with faculty to design content and courses that promote an active learning environment for students enrolled in traditional face-to-face instruction, flipped classrooms, blended/hybrid courses, and online courses and degree programs. CITL identifies current and emerging instructional technologies and works with faculty and staff to incorporate these tools and innovations into curricular and co-curricular activities to promote student learning and engagement. CITL also offers an extensive array of professional development opportunities for the university community centered on teaching effectiveness, student leaning and engagement, and the use and assessment of high impact practices. These training opportunities are delivered via professional learning communities, seminars, webinars, workshops, and more personalized training events for departments and units.

ROTC - Army and Air Force

WKU offers students an opportunity to pursue coursework that can lead to commissions with the U.S. Army or U.S. Air Force. The Army ROTC program is available on the WKU main campus and is administered through the Department of Military Science and Leadership in the College of Education and Behavioral Sciences. For more information on the Army ROTC program contact Brandon Smith (brandon.smith@wku.edu) at (270) 745-6054 or visit http://www.wku.edu/rotc.

Air Force ROTC courses may be taken by WKU students at Tennessee State University through a cross-town agreement that permits local registration and WKU credit for Aerospace courses. For more information on the Air Force ROTC program contact the Air Force ROTC advisor Ken Crawford at (270) 745-4449 or call 615-963-5979, or visit www.tnstate.edu/rotc.

The Graduate School

Dr. Cheryl Davis, Interim Dean of The Graduate School
Wetherby Administration Building, Room 207
Phone: (270) 745-2446; Fax: (270) 745-6950
Email: graduate.school@wku.edu
Website: www.wku.edu/graduate

The Graduate School at WKU offers graduate education in 104 degree and certificate programs. The University confers the Master of Accountancy, Master of Arts, Master of Arts in Education, Master of Arts in Teaching, Master of Business Administration, Master of Fine Arts, Master of Health Administration, Master of Music, Master of Public Administration, Master of Public Health, Master of Science, Master of Science in Nursing, Master of Social Work, Specialist in Education, Doctor of Education, Doctor of Nursing Practice, Doctor of Physical Therapy, and Doctor of Psychology. WKU also offers non-degree Rank I and II and certification-only teacher education programs.

Information Technology

Jody Richards Hall, Room 224
(270) 745-7000 Help Desk
Websites: www.wku.edu/it
www.wku.edu/it/helpdesk

Effective and innovative use of information technology, particularly in support of teaching and learning, is a strategic priority at Western Kentucky University. The Division of Information Technology provides a full complement of academic and administrative systems and services which target the evolving needs of students, faculty, staff, and alumni. Some of these IT services include wired & wireless network access on the main and regional campuses; instructional delivery using interactive television and web-based distance learning; mobile device app support for key systems and services such as email, course schedules, meal plan management, campus maps, and bus schedules; 15 Student Technology Center locations (open labs), including South Campus and all regional campuses, providing 554 computers available to all WKU students, faculty, and staff; and support of 158 departmental labs/classrooms with a total of over 2800 computers. All open labs have free printing, up to the amount of your printing allocation for each year (see IT website for details).

The WKU IT infrastructure is robust and provides high speed, high bandwidth connectivity utilizing the Internet2 research network where appropriate. In addition, WKU IT provides a number of user support services including a centralized IT Help Desk with extended hours, TopperTech – a complementary repair service for student computers and devices, and a Technology Resource Center (TRC) where students and employees can create audio/video media and check out computers and other digital devices.

The Division of Information Technology supports the university's mission through the application of computing and communications resources. The division is organized into five departmental areas: Academic Technology, Enterprise Systems, Enterprise Applications and Programming, Technical Support Services, and Communication Technologies. These services are described in more detail on the WKU web page: www.wku.edu/it.

Kentucky Museum

Brent Björkman, Director
1444 Kentucky Street
Phone: (270) 745-2592
Email: Brent.Bjorkman@wku.edu
Website: www.wku.edu/kentuckymuseum

The Kentucky Museum, located in the Kentucky Building, contains thousands of Kentucky and non-Kentucky artifacts, including examples of decorative arts, textiles, clothing, and an extensive art and quilt collection. The museum also offers a year-round program of field trips, workshops, lectures, and exhibit openings designed for the University community, as well as the general public.

Mission Statement: The Kentucky Museum's mission, in line with parent organization Western Kentucky University to serve as a cultural resource by advancing an understanding and appreciation of history and art through a commitment to excellence in teaching, scholarship, community service, and professional practice.

Vision Statement: The Kentucky Museum is a premier museum in the Southeastern United States, providing on-going resources to its community, recognized for cultural experiences as well as the quality and diversity of nationally significant collections, and aspires to develop its reputation by drawing visitors from within and beyond its region.

Suzanne Vitale Clinical Education Complex (CEC)

Dr. Mary Lloyd Moore, CEC Director
Phone: (270) 745-4232
Email: cec@wku.edu
Website: www.wku.edu/wkucec

The Suzanne Vitale Clinical Education Complex (CEC) houses the Communication Disorders Clinic, the Renshaw Early Childhood Center, the Family Resource Program, and the Kelly Autism Program. The CEC provides applied research opportunities for both graduate and undergraduate students and valuable services to the community at large. This complex is a comprehensive clinical setting for education and health and human services professionals. The CEC builds upon a strong tradition at Western Kentucky University to meet community needs, fill service delivery gaps, provide opportunities for applied research, and enrich both undergraduate and graduate students' educational experiences through an interdisciplinary teaching approach. Following is a short description of the units housed within the CEC:

Communication Disorders Clinic: The CDC, a Kentucky licensed rehabilitation clinic, provides outpatient services to individuals with communication disorders, offering evaluation and treatment services supervised by certified and licensed faculty in language, articulation, voice, fluency, hearing and swallowing disorders. Phone (270) 745-4232.

Vickie and Dan Renshaw Early Childhood Center: The Renshaw ECC provides multidisciplinary services to children with developmental delays and disabilities as well as typically developing children in a group setting. The RECC provides training for university students in early childhood education and related fields. It is also a center for research and collaboration with community partners and early childhood professionals. Phone (270) 745-4232.

Family Resource Program: The FRP is a service/resource program staffed with social work faculty, students and family volunteers. Staff are available to meet with family members and significant others to provide information, resource materials, screening services, case management services, support and referrals. Programming is focused on individuals and families with special needs. Phone (270) 745-4232.

Kelly Autism Program: KAP provides programming and services for individuals ages 7 through adult who have been diagnosed with autism spectrum disorder (ASD) and other disabilities. KAP focuses on developing: social, communication, sensory, executive functioning, transition, community, and academic skills. KAP also provides a Circle of Support program for individuals with ASD who are attending WKU. Phone (270) 745-4232.

University Lecture Series

Rodes-Helm Lectures: The Rodes-Helm Lecture Series was endowed in 1961 by Mr. and Mrs. Harold H. Helm of Montclair, New Jersey. Both Mr. and Mrs. Helm were natives of Bowling Green. The lecture series honors the memories of Judge John B. Rodes, former Circuit Judge of Warren County, and Miss Margie Helm, former Director of Library Services at what was then known as Western Kentucky State College. Income from the endowment fund is devoted to bringing outstanding lecturers to the WKU campus.

L.Y. Lancaster Lectures: Annual lectures by outstanding professionals in the biological sciences field are sponsored by the L.Y. Lancaster Lectureship Society through endowment income. The lectures honor the memory of Dr. Lancaster, an outstanding biology professor and pre-med advisor at Western Kentucky University for 37 years.

W.K.U. - Cultural Enhancement Series: Designed to enrich the cultural life of the university and region, the Cultural Enhancement Series brings prominent artists and intellectuals to campus. Series events give faculty and students the opportunity to interact with visitors informally as well as in public presentations. For more information on the current series, please visit http://www.wku.edu/culturalenhancement or email cultural.enhancement@wku.edu.

W.K.U. - University Center Board Lectures: Several lectures are sponsored jointly by Western Kentucky University and the University Center Board.

W.K.U. - Department Lectures: Frequently, the university joins with departments in sponsoring lecturers on campus.

Student Conduct Policies

Statement on Student Rights and Responsibilities

General Philosophy and Guidelines
Students are citizens and members of the University academic community. A citizen's rights and liberties under the Constitution must always be applied in light of the special characteristics of the environment in which the rights are to be exercised. Central to the special characteristics of the environment of a state supported university campus is the special authority of University officials designated by the Board of Regents to control, preserve, and manage University property and affairs and to maintain order and discipline. Therefore, the WKU Student Code of Conduct was established to ensure that disruptions to the University community are handled in an educational, fair, and dignified manner. The University expects students, parents, and the greater community to respect its rules and procedures governing the WKU community and will resist any unwarranted attempts to influence University policies and procedures.

The University demands high standards of personal conduct and encourages each student to maintain integrity through self-discipline. The University adopts rules and regulations that are necessary for the orderly, harmonious, and beneficial functioning of the University community. Accordingly, each student must respect the rights of others and should abide by the spirit as well as the letter of regulations of the University and laws of the community, state, and nation.

Any question of interpretation regarding the WKU Student Code of Conduct shall be referred to The Office of Student Conduct. The WKU Student Code of Conduct shall be reviewed every two years under the direction of the Director of Student Conduct.

Maintenance of Student Records
The Office of Student Conduct maintains disciplinary records on students of Western Kentucky University. All student records maintained by the Office of Student Conduct are held in compliance with the Family Educational Rights and Privacy Act (FERPA). These records are kept under lock and in confidence in said office with access to these records being available only to the appropriate University officials. Non-Current records, more than five years old, shall be destroyed or expunged. Current disciplinary records which are pending or resulted in a suspension or expulsion shall be retained.

Purpose of the Student Code of Conduct
Western Kentucky University developed a Student Code of Conduct in order to fulfill its mission and promote a positive environment for all members of the University community. As a member of the University community, a student is granted rights and responsibilities, which are defined within the Student Handbook. It is the responsibility of every student to become familiar with the WKU Student Code of Conduct and the rights and responsibilities of students. Ignorance of the WKU Student Code of Conduct is not acceptable justification for violation of any campus policies or procedures.

The regulations within the Student Code of Conduct are intended to govern the student conduct at Western Kentucky University. The University will take disciplinary action against a student for an off-campus offense only when the nature of the offense is such that, in the judgment of the Director of Student Conduct, the continued presence of the student on campus is likely to interfere with the educational process and the orderly operation of the University. Students who violate the law may incur penalties prescribed by civil and criminal authorities. However, the University reserves the right to review student incidents independent of action by civil and criminal authorities and apply the University's disciplinary process as it serves the educational mission of WKU, a function separate and distinct from civil and criminal proceedings. Below are statements of policy regarding the rights, responsibilities, and code of conduct for Western Kentucky University.

Rights

1. The right as citizens. Students have the right to enjoy the same freedoms as are guaranteed by the Constitution of the United States and the Commonwealth of Kentucky, and to expect an education of the highest quality.
2. The right to speak on University property provided that his/her behavior does not infringe on the rights of others as further defined in the University policy on time, place, and manner of meetings, assemblies, and demonstrations.
3. The right of freedom to hear and participate in dialogue and to examine diverse views and ideas.

4. The right to participate in all areas and activities of the university, free from any form of discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, physical or mental disability, age, sexual orientation, political belief, marital status, uniform service, gender identity/expression, or veteran status in accordance with applicable federal and state laws.
5. The right to engage, either individually or in association with others, in off-campus activities, exercising rights as a citizen. When so engaged, in a context in which the participant is identified as a student, there exists a responsibility to make clear that the student does not represent the University.
6. The right of due process in the student conduct procedure in accordance with rules of procedures prescribed in the Student Code of Conduct.

Responsibilities

1. The responsibility of assuming the consequences of one's own actions.
2. The responsibility to insure that no student organization, constitution or other organizational document includes discriminatory clauses pertaining to race, creed, religion, color, sex, national origin, physical or mental disability, sexual orientation, political belief, marital status, uniform service, gender identity/expression or veteran status.
3. The responsibility to respect the rights and property of others, including other students, the faculty and the administration.
4. The responsibility to recognize that student actions reflect upon the individuals involved and upon the entire university community.
5. The responsibility for knowledge of and observance of established University policies presented in official University publications.

Student Code of Conduct

The Student Code of Conduct educates students about appropriate behavior and fosters a community in which academic success can occur. The following Student Codes of Conduct are the regulations that apply to ALL WKU students, including the regional campuses:

1. **Dishonesty.** Dishonesty, such as cheating, plagiarism, misrepresenting of oneself or an organization, knowingly furnishing false information to the University, or omitting relevant or necessary information to gain a benefit, to injure, or to defraud is prohibited.
2. **Drugs.** Use, possession, production, manufacture, sale, possession with intent to sell, trafficking or distribution of narcotics, dangerous drugs or controlled substances, as defined in KRS Chapter 218A. Specific violations related to this code include, but are not limited to marijuana, drug paraphernalia, anabolic steroids, dispensing prescription or prescription drug not prescribed to the student; driving while impaired by any drug, whether it be legal or illegal; and drug related activities used to induce an altered state is strictly prohibited. The manufacture or distribution or attempted manufacture or distribution of narcotics, dangerous drugs, or controlled substances on or off University property is prohibited.
    a. Any student with a violation of the Drug Policy while enrolled at the institution may be removed from student housing and / or suspended from the University. Any student who is found to be manufacturing or distributing drugs on or off campus may be suspended or expelled from the University.
3. **Alcohol. Western Kentucky University complies with the alcohol regulations of the Commonwealth of Kentucky.** Members of the university community recognize that a violation of any federal, state and local laws governing the use and possession of alcoholic beverages, including off-campus is prohibited. Examples may include but are not limited to Driving under the influence (DUI), being assessed as intoxicated in public (AI or PI) and underage possession/consumption.

    The University prohibits the possession, furnishing or use of alcoholic beverages (including wine and beer) by students on campus and/or guests of students in residence halls. The University prohibits the use of rapid consumption devices or drinking games including, but not limited to, kegs, bongs, funnels, and beer pong.

    As a member of the WKU community, students agree to:

    1. Abide by all state laws and university policies governing the use of alcoholic beverages and drugs.
    2. Support, in their decisions and behavior, an environment in which individuals can make informed, healthy, and responsible decisions about alcohol and drugs;
    3. Discourage the illegal or irresponsible behavior of others; and

4. Assume responsibility for their decisions and behaviors and accept the consequences resulting from those decisions and behaviors.

Any student found in violation of the Alcohol Policy three times in any one-year period may be suspended from the University for a minimum of one semester.

4. **Sexual Misconduct Assault.** Actual or attempted sexual contact with another person without that person's consent is prohibited. Sexual Misconduct includes, but is not limited to, the following:

    - Intentional and unwelcome touching, coercing, or an attempt to coerce, and forcing;
    - Involvement in any sexual contact when the victim is unable to consent;
    - Forcing another individual to touch a person's intimate parts (defined as genital area, groin, inner thigh, buttocks, or breasts);
    - Sexual intercourse without consent, including acts commonly referred to as 'rape'. (refer to the Discrimination and Harassment Policy. Additionally, Sexual Misconduct includes behaviors outlined in the University's policy on sexual discrimination and harassment. http://www.wku.edu/eoo/documents/wkutitleixpolicyand grievvanceprocedure.pdf

    Lack of consent occurs when the acts are committed either by force or intimidation or by taking advantage of the victim's mental incapacity or physical helplessness.

Report it!

http://www.wku.edu/handbook/reportingsa.php

5. **Weapons.** Possession or use of firearms, explosives (including fireworks), dangerous chemicals or other dangerous weapons or the brandishing of any weapon or any other object in a menacing or threatening manner on institutionally owned or controlled property is prohibited.

    The owner of a private vehicle is prohibited from possession or storing a weapon in the vehicle while it is operated or parked on University property, including University parking areas, either on campus or at any off-campus facility owned, leased, or operated by the University.

    Exception as provided in WKU's **POLICY & PROCEDURE DOCUMENT** NUMBER: 0.2020, Deadly Weapons/Destructive Devices Policy- http://www.wku.edu/policies/documents/weapons_0_2020.pdf.

    Weapons may be defined as an object, instrument, device, or substance designed to inflict a wound, cause injury or incapacitate. Weapons may include, but are not limited to all firearms, pellet guns, stun guns, paintball guns, air guns, slingshots, martial arts devices, knives and clubs.

    The above information is provided solely for your convenience and is not intended to constitute a formal legal understanding or legal advice. If you have any additional questions on storing or transporting deadly weapons in a vehicle while on campus, including whether a particular means of storage or transportation would violate the Student Code of Conduct against weapons on campus pertaining to carrying a concealed deadly weapon, you may wish to consult the University Police Department. ***Unauthorized weapons will be confiscated and disposed of properly by WKUPD.***

6. **Identification.** Refusal to provide proper identification upon request. Students are expected to carry their valid student identification at all times and to present it upon request by University officials including, but not limited to University Police, faculty, residence life staff, and other staff of the institution. The University may confiscate any ID card that has been misused, duplicated, or altered. Cards may be retained temporarily while their validity is checked. A student may possess only one ID card. Use of the ID card by any person other than the person to whom it was issued or use of the card under false pretenses is a violation of the Code of Conduct.

7. **Theft.** Theft and/or possession of stolen property is prohibited. Such property may include, but is not limited to, parking
decals, and personal or university property.

    a. Theft of property having substantial value may result in serious disciplinary action for a first offense.

8. **Hazing.** Hazing refers to practices that are a part of initiation into an affiliation with any organization. Hazing is considered a serious violation of The Student Code of Conduct and is prohibited in all forms. This code of conduct is based on fair and equal treatment with consideration and respect for all students and applies to organizations and individuals alike. Any person receiving bodily injury by hazing or mistreatment shall have a right to sue, civilly, the person or persons guilty. Western Kentucky University defines hazing as any action, physical abuse or creation of a situation that recklessly or intentionally endangers the mental or physical health of a participant by any person. A participant is defined as a university student, or any pledge. A person is

defined as a university student, member, alumnus, affiliate alumnus, guest of any campus organization, or other individuals.

Physical Abuse:

- Forced or coerced use or consumption of liquor, drugs, or any other vile substance.
- Calisthenics (push-ups, sit-ups, jogging, runs, etc.)
- Paddling
- Line-ups

Mental Abuse:

Hazing is defined by exacting degrading and disagreeable work, ridicule or abusive and humiliating conduct that tends to bring the reputation of the organization or University into disrepute. Any action that intentionally prevents students from fully participating in the academic process is also considered hazing.

- Theft of any property
- Sleep Deprivation
- Forced Nudity
- Personal Servitude
- Forcing a violation of University policies and federal, state, or local laws

9. **Harassment.** Any physical, behavioral or verbal abuse of a person based upon gender, race, color, ethnic origin, national origin, creed, religion, political belief, sexual orientation, marital status, age, uniform service, veteran status, gender identity/expression or physical or mental disability is prohibited, where:

    1. Tolerance of or participation in the offensive conduct explicitly or implicitly becomes a condition of employment or participation in a university course, program or activity; or
    2. The conduct is sufficiently egregious, pervasive or persistent to interfere with an individual's work, academic or program participation; or
    3. The conduct creates an environment that a reasonable person would consider intimidating, hostile, or offensive.

    Such conduct includes, but is not limited to stalking, cyber stalking, cyber bullying/harassment, and retaliation as a result of complaints or alleged misconduct.

    (Refer to the Discrimination and Harassment Policy) - http://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf

10. **Unruly Conduct.** Disorderly, abusive, or lewd acts that result in physical altercation, fighting and indecent or obscene conduct that cause physical injury or threaten others, or interferes with any individual's rightful act is prohibited. This responsibility also applies to events sponsored and supervised by recognized student organizations, on or off campus.

11. **Disrupting the Academic and or Disciplinary Process.** Interference or disruptive activity that impedes, impairs, or obstructs teaching, research, administration, disciplinary process, failing to comply with the outcomes imposed under the Student Conduct Code, or other University missions, processes, functions or other authorized activities including its public service function of other authorized activities on University premises or which inhibits full exercise of rights by others is prohibited.

12. **Class Attendance and Classroom Conduct.** Regular classroom attendance is expected of all students. Although role may not be taken grades are based on the performance of assigned work and this may include class participation and attendance. A professor has the authority to determine acceptable classroom conduct for his or her students as long as those decisions do not infringe on the student's rights. Disruptive classroom behavior may also be considered unruly conduct (see item 10).

13. **Technology Use Ethics.** Any violation of the Technology Ethics Policy as created by the Department of Information and Technology is considered a violation of the Student Code of Conduct.

14. **Shared Responsibility for Violations.** Enticing, inciting others, abetting, conspiring, being an accessory, or passively witnessing/participating in any act prohibited by the student conduct code is prohibited.

15. **Requests or Orders.** Refusal to comply with directions, requests, or orders by University officials or law enforcement or failing to identify oneself when requested to do so is prohibited. Upon the request of the student

questioned, the authorized university official must show identification and state the source of his/her authority. Among those officials who may request a student's ID card are staff members from: Residence Life, Downing Student Union, WKU Food Services, Faculty and Staff, Book Store as well as any staff member within the Division of Enrollment and Student Experience.

16. **Misuse of Property.** Unauthorized entry or use of institutional facilities and property; unauthorized possession or duplication of university keys, parking decals or access cards; tampering with fire equipment; or propping open of exterior residence halls doors or any door to any institutionally owned or controlled property is prohibited. Students may not use University property for any activity prohibited by Federal, State or local laws.
17. **Destruction of Property.** Any act of vandalism, malicious, or unwarranted damage or destruction to any institutionally owned or controlled property is prohibited.
18. **Recreational Mobility.** Skateboards, skates, and bicycles may be used on sidewalks for safe transportation purposes only. When using sidewalks, remember pedestrians have the right of way. They may not be used inside buildings or within 50 feet of building entrances. Motorized scooters, mopeds, motorcycles, and similarly motorized vehicles are not to be used on sidewalks or in pedestrian traffic areas. Motorcycles, scooters, mopeds, and other motorized vehicles must park in parking lots in designated cycle parking areas. Registration with WKU Parking and Transportation Services department is required for all motorized vehicles. On campus housing residents may only bring one motorized vehicle to campus.

    Excessive speed, stunt riding, or any other use of skateboards, skates, bicycles, or motorized vehicles that may cause property damage and/or endanger self or others is prohibited. Bicycles should be parked at any of the bicycle racks established throughout campus. Bicycles chained to trees, fences, handrails, etc., may be impounded. Users may not ride on stairways, patios, dock areas, benches, picnic tables, or irregular surfaces. Any person causing damage to University property through use or misuse of recreational equipment may face prosecution through the University student conduct process and/or the legal process to recover damages.
19. **Obstruction of Access.** Obstruction or disruption, which interferes with the freedom of movement, either pedestrian or vehicular on institutionally owned or controlled property is prohibited.
20. **Parking and Transportation Regulations.** Traffic rules and regulations as published by the university, will be administered by The Office of Parking and Transportation. Students are required to obey these regulations as a condition of their enrollment. Any behavior that is of an unruly or disrespect to their authority will be deemed a violation of the Code of Conduct.
21. **Fraud.** Knowingly passing a worthless check, money order or fraudulent use of credit cards including attempts to obtain any item of value under false pretenses or falsification of official university documents is prohibited.
22. **Forgery.** Forgery, alteration or misuse of University documents, records including**,** but not limited to, electronic records, transactions and /or communications, or identification, including student identification cards is prohibited.
23. **Gambling.** Participation in any form of illegal gambling is prohibited.
24. **Violation of Laws.** The commission of acts which constitute a violation of local, state and federal laws. The University will review any conduct reported by members of the University community, law enforcement personnel, or citizens as being in violation of the law. Any student convicted of a criminal offense is subject to university disciplinary action.
25. **Violation of General Rules and Regulations.** Violation of any University policy, guideline, campus rule or regulation of conduct, which adversely affects the student's suitability as a member of the University community.

Range of Conduct Outcomes

The following list describes University outcomes that may be administered as a result of violating the WKU Student Code of Conduct. Outcomes may be imposed only after the student has been given the opportunity to review alleged violations, review any evidence, and respond to the allegations. Should the student wish to not participate in a conference, the conference resulting outcomes may be administered in absentia.

Preponderance is the standard of proof used in student conduct meetings and formal conferences. For a student to be found responsible for a violation, the evidence must indicate that it is more likely than not that the violation occurred. This is very different from the criminal court system.

Conduct outcomes may be used independently or in combination depending on the particular circumstance of the violation. Chronic and/or multiple violations during the course of an individual student's college career may increase the level of sanctions applied.

1. **Warning** - Official notice to a student that conduct or actions are in violation. The continuation of such conduct or actions may result in further disciplinary action
2. **Creative Discipline** - A sanction which may be used in lieu of, or in combination with, sanctions numbered three through six below. Creative discipline will be consistent with the offense committed. In some cases, at the discretion of the conduct officer, a student found in violation may attend special educational seminars, classes, or workshops offered in the subject area of the violation or may be given another outcome which is directly related to the violation. In these cases, the student must always submit written proof of completion of the outcome to the conduct officer. The University may also contact parents or legal guardians of students found in violation of policy concerning the possession of alcohol or controlled substances if the student is under 21.
3. **Behavior Agreement** - Behavior contract between the University and the student whereby the student agrees, in writing, to correct inappropriate behaviors.
4. **Restricted Use of Facilities** - Denial of on campus use of an automobile for a specified period of time, removal from a living group, or other privilege including the use of specific University facilities, consistent with the offense committed. Restricted use of facilities may be accompanied by other outcomes.
5. **Restitution** - Reimbursement by transfer of property or service to the University or a member of the University community in an amount not in excess of the damage or loss incurred. Reimbursement may be accompanied by other outcomes.
6. **Restricted University Participation** - Exclusion for a period of time from participating in extra-curricular activities including recognized student organizations and/or representing the University in any manner. Classroom attendance will be unaffected.
    - The following outcome may be imposed upon groups or organizations: Deactivation – Loss of all privileges, including University recognition, for a specified period of time.
7. **Probation** - A period of observation and review of conduct in which the student demonstrates compliance with the provisions of University regulations.

    Any student found in violation of the Student Code of Conduct while on disciplinary probation in the same semester of academic probation may be subject to immediate suspension or dismissal from the university.
8. **Deferred Suspension** – In some cases, an outcome of suspension may be held in abeyance for a specified period. This means that if a student is found responsible for any violation during that period, he or she will be subject to the deferred outcome without further review, in addition to the disciplinary action appropriate to the new violation.
9. **Separation** – An immediate dismissal from the University based on threat or danger to the university community or egregious, pervasive student behavior. Students separated from the University are eligible to apply for reinstatement to the University. Readmission is not guaranteed.
10. **Interim Suspension** – Exclusion for a period of time, prior to a student conduct outcome, from the residence halls or campus (including classes) and all other college activities or privileges of a University student.
    - Interim suspension may be imposed only:
        - To ensure the safety and well-being of members of the University community or preservation of University property;
        - To ensure the student's own physical or emotional safety and well-being; or
        - If the student poses a definite threat of disruption of or interference with the normal operations of the University.
11. **Suspension** - Exclusion for a period of time, generally from one term to one year. A separation from the university is a time away for a number of academic semesters or until certain conditions are met.

    In certain circumstances, the Director of Student Conduct or the Vice President for Enrollment and Student Experience or his/her designee may impose a University or residence hall suspension. ***All students who reach a level of outcome that includes any suspension may not be eligible to reside in the University Housing System.***

12. **Expulsion** - Dismissal from the University for an indefinite period of time. Any student expelled may not, thereafter, be readmitted to the University except upon application to the Board of Regents through the President.

Outcome Determination

The Office of Student Conduct will make the determination as to whether or not allegations of misconduct involve matters sufficiently serious to raise issues of suspension or expulsion from the university. The following shall be considered:

1. The degree of willfulness or inadvertence;
2. The degree of injury or risk of injury to the accused or to another person, if any;
3. The extent of damage to property, if any;
4. The danger or risk of danger to the University community, if any; and
5. Any other factor or circumstance bearing reasonably upon mitigation or aggravation or the seriousness of the alleged offenses should it be established as a violation.

Any time an outcome is assigned to a student by the University for inappropriate behavior it is considered serious. Cases involving outcomes of warning, creative discipline, disciplinary agreement, restricted use of facilities, restitution, and disciplinary probation are usually not serious enough to warrant expulsion or suspension. Cases of this nature that involve incidents occurring within a residence hall may be heard by Housing and Residence Life and the Director of Student Conduct. with exception, all cases involving student arrests; drug violations resulting in arrest, sexual misconduct, physical assaults and unruly conduct will be heard by the Office of Student Conduct. Those cases which involve incidents occurring off-campus; and more egregious violations of the Student Code of Conduct will be heard by the Director of Student Conduct.

Cases will be heard through informal discussion, conferences, and meetings with the accused student. Any such decision is subject to final review by the Office of Student Conduct or The Vice President for Enrollment and Student Experience. A request for final review by the Vice President for Enrollment and Student Experience or his/her designee must be made within three business days after the initial outcome.

Process for Academic Offenses

Dishonesty
Such as cheating, plagiarism, misrepresenting oneself or an organization, knowingly furnishing false information to the University, or omitting relevant or necessary information to gain a benefit, to injure, or to defraud is prohibited.

Academic Integrity
The maintenance of academic integrity is of fundamental importance to the University. Thus it should be clearly understood that acts of plagiarism or any other form of cheating will not be tolerated and that anyone committing such acts risks punishment of a serious nature.

- **Academic Dishonesty**—Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the course work in which the act is detected or a failing grade in a course without possibility of withdrawal. The faculty member may also present the case to the Office of Student Conduct for additional action. A student who believes a faculty member has dealt unfairly with him/her in a course involving academic dishonesty may seek relief through the Student Complaint Procedure. (Found in the Academic Policies section of the catalog).
- **Plagiarism**—To represent written work taken from another source as one's own is plagiarism. Plagiarism is a serious offense. The academic work of a student must be his/her own. One must give any author credit for source material borrowed from him/her. To lift content directly from a source without giving credit is a flagrant act. To present a borrowed passage without reference to the source after having changed a few words is also plagiarism.
- **Cheating**—No student shall receive or give assistance not authorized by the instructor in taking an examination or in the preparation of an essay, laboratory report, problem assignment, or other project which is submitted for purposes of grade determination.

Other Types of Academic Dishonesty—Other types of academic offenses, such as the theft or sale of tests, electronic transmission of test, test sharing, etc. will be reported to the Office of Student Conduct for disciplinary outcome.

What if a student plagiarizes or in some other way is academically dishonest?
The Faculty Syllabus or Handbook may permit a faculty member to fail a student on the assignment or the entire class. Cases of academic dishonesty may be referred to The Office of Student Conduct for review and additional action. It isn't obligatory for faculty to contact the student that they have referred to the Office of Student Conduct to start conduct proceedings. If a student appeals the outcome of the conduct proceedings, the Vice President of Enrollment and Student Experience of his/her designee will review the appeal.

If the violation could result in removing the student from the University (the typical term is 1 year), then the University Disciplinary Committee meets with the student in a conference setting. This committee will hear the more serious academic dishonesty cases.

Off-Campus Jurisdiction
While the institution does not desire to act as a policing authority for the activities of the student off University property, and while it cannot serve as a sentencing authority for a student's violation of federal, state or local law, the University may take appropriate action in situations involving misconduct that violates the WKU Student Code of Conduct.

The university has a vested interest in student behavior as it pertains to alcohol use and other drug use which threatens the health, welfare and safety of self and others. The university has deemed off –campus violations of the alcohol and drug code of conduct to be actionable by the university disciplinary process. When actions or incidents occur outside of the residence halls or off campus, such conduct may call into question the student's continued membership in the educational community either because the student grossly violated elementary standards of behavior required for the maintenance of the educational community or because the student's continued presence would adversely affect the pursuit of educational goals of others.

It is also the position of the Office of Student Conduct that among the violations of misconduct considered to be of an especially serious nature are those that represent a threat to the safety and health of members of the University Community. These include involvement with narcotics, dangerous drugs, and/or controlled substances, violence or threat of violence, non-consensual sexual contact, and the possession of firearms or the brandishing of any object in threatening manner. A student found in possession of a firearm or any other weapon or the brandishing of any object in a menacing or threatening manner will be referred to the Director of Student Conduct for the sole purpose of determining either suspension or expulsion.

Notwithstanding the above, the President of the University is authorized and has empowered the Vice President for Enrollment and Student Experience and the Director of Student Conduct to suspend (interim suspension) any student if it is indicated that under the circumstances the accused student's continued presence on campus during the three day interim period awaiting a conference before the University Disciplinary Committee is inimical to the best interests of the University. Any such suspension (interim suspension) shall be for a period of not more than five days. The student shall be furnished written notice of the actions and the reasons therefore. The notice shall also advise the student that the accusation of misconduct shall be referred to the University Disciplinary Committee.

Procedures Followed:

Student Conduct Conference Flowchart

Notification of student code violation

↓

Notification by letter, or phone to student regarding code violation

↓

Staff member to schedule an appointment with student

↓

Meet with Director of Student Conduct to discuss alleged student code violations

↓

Implement outcome or case dismissal

↓

Follow-up letter of outcome and actions taken

↓

Student to Complete Outcome

↓

File record of incident and outcome

In enforcing student conduct regulations, the University follows fair procedures in keeping with democratic practices and due process requirements. Action will not be taken without providing the student with notice of the charges in advance to allow a reasonable period of time to prepare for the conference. Preliminary conferences with the student on any alleged violation or misconduct may occur immediately for the purpose of ascertaining the nature and extent of the problem. Because the focus is on the education of students, conferences are conducted as informal inquiries and do not follow formalized courtroom procedures. Decisions at such conferences will be based solely upon the information produced therein. Based on the preponderance of the evidence, the level of student responsibility and/or involvement shall be determined by the institution.

In any case where the violation of University policy involves conduct that would constitute a public criminal offense upon prosecution and conviction, the burden will be satisfied by either:

(a) The accused student's admission of responsibility to the committee, or

(b) Information in the record, if the student denies responsibility that a preponderance of evidence indicates responsibility.

A university committee for student disciplinary matters has been established by action of the Board of Regents of Western Kentucky University in accordance with the Kentucky Revised Statutes which authorize the Board of Regents to invest the faculty/staff or a committee of the faculty/staff with the power to suspend or expel any student for egregious violations of the WKU Student Code of Conduct or a gross disregard for the rights of others in the campus community. The Committee is comprised of thirteen members, six faculty, five staff, and two students, who are appointed by the President of the University. Faculty terms are three years and are staggered so that the term of one third of the membership expires each year.

At least seven members of the Committee will be present before any official action is taken. Any decision will be made by a majority of those Committee members present. The Committee is to be notified of a meeting by the Office of Student Conduct immediately upon determination of the necessity for such a meeting.

Committee meetings are conducted in two parts. In the first part, only information that bears on whether or not the student has engaged in specified violations or misconduct may be presented. If the Committee finds no violation or misconduct, the finding is recorded and the proceeding is concluded.

If the finding is that the student has, in fact, engaged in a violation or misconduct, the Committee shall, in the second part of the proceeding, hear and consider any information bearing upon circumstances of extenuation or mitigation. After this part is concluded, the Committee shall determine the appropriate outcome. The Committee will function in accordance with the following procedures:

Preliminary Procedures

1. Director of Student Conduct or his/her designee shall have notified the student or students in writing as to the time and place of the conference to be held by the university committee for student disciplinary matters and of the nature of the problem or charge and the information against the student or students.
2. Notification to the student (s) shall be made at least three days before the conference is to be held. The student will meet the Director of Student Conduct or his/her designee to discuss the conference process and sign a judicial conference checklist form. In the student's absence, a written report of the facts of the case and all related documents will be presented and reviewed by the University Disciplinary Committee and a decision will be made as to whether or not a violation of misconduct occurred and an appropriate outcome will be levied at that time.
3. The Director of Student Conduct and other persons on the staff shall provide the committee with a written report of the facts of the case.
4. If so desired, the student(s) may be accompanied at the conference by a member of the faculty, staff, fellow student or any third party approved by the University. Written approval must be secured two working days prior to the conference.
5. Persons accompanying the student may advise but not represent and may not address the Committee in any fashion without permission from the Chairperson.
6. Due to the delicate nature of the conference and because of the need to protect confidential records and the alleged victim, these meetings shall be otherwise closed.

Conference Procedures

1. The Chairperson will begin the meeting by citing reasons for the call. Information bearing on whether or not a violation or misconduct has occurred will be given by the Director of Student Conduct or an appointed representative of the Director of Student Conduct.
2. The student will be given an opportunity to state the case and to present pertinent information for defense.
3. The Chairperson will call for discussion in a question and answer exchange on whether or not a violation or misconduct has occurred.
4. The Committee will make a decision in an executive session on whether or not a violation or misconduct has occurred.
5. The decision of the Committee will be reported to the student and the student's representative in a private session. If the decision is that a violation or misconduct has occurred, the Committee will then hear and consider information bearing upon the circumstances of extenuation or mitigation.
6. The Committee will then apply the appropriate outcome in closed session. If the Committee finds that a violation or misconduct did not occur, the Committee will state as such and the meeting will conclude.
7. A record of the session proceedings will be retained by the University.

Conditions for Appeal

The University understands the need to have a corrective process in place to address circumstances should the Conduct Officer. One or all of the follow conditions must be met in order for an appeal to be considered. An appeal should be set forth by the accused:

1. To determine whether the original conference was conducted fairly and in accordance with the Office of Student Conduct outcome determination and procedures.

2. To determine whether the decision reached regarding the accused student was based on substantial information to determine the preponderance of evidence and/or the level of responsibility. This is not information you chose not to share or obtain prior to the conference.

3. To determine whether any outcomes imposed (suspension, expulsion or denial of housing/network access) were appropriate and not unduly harsh for the violation(s) set forth in the Student Code of Conduct.

4. If you are the complaining student in a sexual harassment and/or sexual misconduct case. For sexual misconduct and/or sexual harassment cases both the complainant and the charged student can file an appeal regardless of the outcome. Both students have the same grounds to appeal and the same time frame in which to submit an appeal per WKU policy 0.2044.

***An appeal cannot be filed simply because you are unhappy with the decision.**

*If one of the aforementioned conditions is proven, the appeal will be forwarded to the appropriate reviewer.

A student who files an appeal must do so in writing to the appropriate reviewer:

1. Students who wish to appeal the conference outcome of the Residence Life Staff must submit a written appeal to the Assistant Director of Residence Life within five business days following the decision.
2. Students who wish to appeal the conference outcome of the Director of Student Conduct must submit a written appeal to the Vice President for Enrollment and Student Experience or his/her designee within five business days following the decision.
3. Students who wish to appeal the conference outcome of the University Disciplinary Committee must submit a written appeal to the Vice President for Enrollment and Student Experience or his/her designee. If the Vice President for Enrollment and Student Experience, or his/her designee, upholds the outcome of suspension, expulsion or separation, an appeal may be made to the President of the University. In the event the President considers the outcome to be inconsistent with the ethical principles and standard of conduct of the University community, the President may request that the case be reopened and reheard by the University Disciplinary Committee. If the President upholds the conference outcome of suspension or expulsion, an appeal may be made to the Board of Regents. The decision of the Board of Regents is final.

***If none of the three conditions for appeal is met, the decision of the original conference will be upheld and the responsible student is expected to comply immediately.**

Procedures for Appeal through the President to the Board of Regents

1. In every case of suspension or expulsion of a student from the University, the person suspended or expelled may appeal to the Board of Regents. The board of regents shall prescribe the manner and the mode of procedure on appeal. The decision of the Board of Regents shall be final.

2. Students desiring to appeal a decision of suspension or dismissal from the University shall do so by submitting a written statement of notice of intent to appeal to the Office of the President. No appeal will be considered unless such notices is received in within five days, excluding holidays or weekends, from the date on which the student is furnished written notification of the Committee's decision.

3. In certain cases and in the discretion of the Director of Student Conduct, the student suspended or expelled may be allowed to continue in status pending the results of the appeal.

4. The student shall include in the appeal a written statement of the reasons why the student thinks the decision should be modified.

5. The Vice President for Enrollment and Student Experience, or his/her designee, may submit a brief written statement of response. The student may also submit pertinent information, newly discovered or initially withheld for good cause, for consideration by the Board.

6. Only information contained within the record of the proceedings of the University Disciplinary Committee will be reviewed on appeal by the Board. No information will be considered that was not furnished to the University Disciplinary Committee.

7. When an appeal is filed, the entire record of the University Disciplinary Committee's proceedings and its decision, the student's appeal statement, and the Vice President for Enrollment and Student Experience, or his/her designee, response shall be forwarded to the Office of the President.

8. A subcommittee of the Board of Regents will serve as the official body to consider the appeal and render a decision on behalf of the Board of Regents.

9. The Committee may meet at times and places deemed by it to be necessary to provide a timely and expeditious consideration of appeals.

10. The Committee is authorized on behalf of the full Board to review the University Disciplinary Committee's record, the student's written appeal, and the Office of the Vice President for Enrollment and Student Experience or his/her designee response. The committee shall determine:

A. Whether the decision was made in accordance with the provisions of and the procedural safeguards specified in the Statement of Student Rights and Responsibilities; or
B. Whether, in its view of the entire information before it, the decision is erroneous; or
C. Whether, in its view of the entire case, the welfare of the student or the best interest of the University will be served by applying no outcome or a lesser outcome or providing that the outcome shall commence on a date different from that specified by the University Disciplinary Committee.

The review will be based upon the written record.

Upon concluding its review, the Committee may sustain, reverse, or modify the outcome. The decision of the Board Committee shall be filed with the Secretary of the Board, and the Secretary of the Board will furnish a copy of the decision to each member of the Board of Regents. The full Board may, at its sole discretion and upon its own initiative, decide to consider the appeal en banc at its next meeting. Applications from the student for full Board en banc review are not entertained. Appropriate written notice to that effect shall be furnished the student at the time the student receives a copy of the Committee's determination, which shall constitute the final decision.

Policies and Procedures for Dealing with Students Displaying Behavior Due to Emotional Disturbance

Demonstration of Physical Harm - Any student who demonstrates intent to seriously harm himself/herself or otherwise poses a danger causing psychological or physical harm to self will be referred to the Chair of the Campus Partners Team or his/her designee for referral to the Counseling Center.

The intent of the following policies and procedures is to support an appropriate living and learning environment at Western Kentucky University for faculty, staff, and students. Incidents of disruptive behavior brought on by emotional disturbances will be assessed and treated with care for their effects upon the student displaying the behavior and the total University community.

Western Kentucky University recognizes the fact that emergencies may arise due to what appears to be a student displaying disruptive behavior due to emotional disturbances. Such emergencies may create a threat to the student or others, and must be evaluated by competent medical professionals. When emergencies of this nature occur, they are reported to the Office of the Vice President for Enrollment and Student Experience or his/her designee and The Office of Student Conduct.

Demonstration of psychological or physical harm, or disruptive behavior caused by manifestations of a serious psychological problem include, but are not limited to:

- instances where a student engages in, or threatens to engage in, inappropriate behavior that poses a danger of causing physical harm to self or others, or inappropriate behavior that demonstrates a student's inability to care for self, and/or

- instances of inappropriate behavior that would cause significant property damage, or would directly and substantially impede the lawful activities of others, or that substantially interferes with or impedes the educational experiences of others, or would interfere with the educational process and the orderly operation of the University; and/or

- instances where a student engages in inappropriate behavior where a contributing factor is failure to follow a prescribed medical or psychological treatment plan; and/or

- instances of inappropriate behavior that causes a chronic, inordinate use of university resources including, but not limited to, staff time, psychological services, medical services, and/or emergency services, thereby resulting in an undue burden to the University.

When it has been reported or it is determined by the Vice President for Enrollment and Student Experience or his/her designee that a student has allegedly participated in one or more of these behaviors, the student will be required to present himself or herself within one business day, to the Director of Counseling and Testing or his/her designee.

If the circumstances indicate that an evaluation is in the best interest of the student and the University, the Vice President for Enrollment and Student Experience or his/her designee or the Director of Enrollment or Student Experience shall coordinate this evaluation with the Director of Counseling Services. Based on the request made by the Vice President for Enrollment and Student Experience or his/her designee, the student may be admitted to one of the local hospitals for treatment.

The Counseling Director will coordinate with the hospital for future treatment. After consultation with the Counseling Director and the review of past behavior of the student, the Vice President for Enrollment and Student Experience or his/her designee will determine if withdrawal procedures should be initiated if the student presents a danger to others. The purpose of these procedures would be to remove the student from campus housing and/or from the University for the care of the student and the University.

The student will be notified in writing by the Vice President for Enrollment and Student Experience or his/her designee to appear for a meeting.

The Office of Student Conduct is responsible for the University disciplinary process. This policy does not preclude a student's removal from the University, or any unit, class, or program, for disciplinary reasons in accordance with WKU's Student Code of Conduct. The Office of Student Conduct or the Vice President for Enrollment and Student Experience or his/her designee and the Counseling and Testing Service and Health Services, with appropriate releases, may consult to determine whether a student accused of violating the University's Student Code of Conduct should be diverted from the disciplinary process to these procedures. Conversely, these departments, with appropriate releases, may consult to determine whether a student referred for consideration for a medical withdrawal might be more appropriately handled through the student disciplinary process. A student who is withdrawn from the university, under the provisions of this policy, has the opportunity for one appeal.

Medical Withdrawal should not be imposed when disciplinary, academic, or other responses are readily available and the student's situation can be addressed through those avenues. Furthermore, when possible and appropriate, efforts will be made to persuade the student to voluntarily withdraw and to follow a course of treatment needed to resume student status. Forced medical withdrawals are reserved for students who present a danger to others

A. Behavioral Evaluation Requirements

When a student's behavior is sufficiently disruptive due to emotional disturbances to cause University staff members to question whether or not the student can benefit from the educational programs at WKU, or if the student poses a potential danger to himself/herself or others, the University will require an evaluation. The evaluation will be conducted by the Counseling Center or an appropriate professional outside the University who shall serve in an advisory capacity to the University. When necessary, the cost of this required evaluation shall be the responsibility of the University. Should a student desire a second evaluation or an evaluation by a professional of his/her choice other than that provided by the University, then the student shall bear the cost of the evaluation.

A student choosing to leave the University prior to receiving the evaluation will be withdrawn from the University under the University policy governing withdrawals. In accordance with the University Student Record Policy, the VPSA or his/her designee, may inform the student's parents, spouse, or some other member of the family regarding concerns of the student's safety or the safety of others.

Should the student choose not to meet for an evaluation, a conference of appropriate staff shall be convened to determine what action should be taken. If a dependent student refuses an evaluation, his/her parents or immediate family may be informed, when appropriate, of the refusal to meet with the appropriate professional. When appropriate and on a "need to know" basis, certain University officials and staff, such as residence hall staff, the student's academic dean, or other University personnel, shall be notified of the concern about the student and the student's refusal to withdraw or to be evaluated by an appropriate person.

In the event that the student complies with the request for evaluation, then one of six actions will follow based upon the results of the evaluation:

1. The student will remain enrolled at the University with no treatment;
2. The student will remain enrolled at the University with treatment and be allowed to remain in on-campus living;
3. The student will remain enrolled at the University with treatment but not be allowed to live in a residence hall or other University owned or controlled property; and/or he or she may be restricted from other areas of campus as appropriate;
4. The student may withdraw from the University voluntarily;
5. Administrative withdrawal; or
6. Medical withdrawal

B. Enrollment Options

I. Remaining Enrolled at the University with no Treatment

Based upon the results of the evaluation and solely at the discretion of the University, the student may be allowed to remain enrolled at the University with no treatment. Any behavior problems will be corrected by the student immediately. A period of time may be designated during which the student's behavior is under review by the Office of Student Conduct.

II. Remaining Enrolled at the University with Treatment and Remaining in On-Campus Living

Based upon the results of the evaluation, the University has the right to require the student to meet certain conditions of treatment. The cost of any treatment (such as counseling/therapy) required of the student shall be the student's/parents' responsibility.

A Behavioral Agreement or a probation period may be established with the student. Solely at the discretion of the University, a student may have his or her behavior under review for a period of time while undergoing treatment. The University will require that any behavior problem be corrected and/or terminated and/or that corrective medical or therapeutic action be taken.

III. Remaining Enrolled at the University with a Facilities Restriction

At times, the students who remain enrolled at the University and in treatment may be required to leave University residence hall and/or be restricted from using other University facilities. Requiring a student to leave the environment of a university residence hall and to live at home or in a more appropriate place while seeking treatment and, (in some cases, carrying reduced course loads) as a commuting student may be appropriate. Furthermore, the behavior of the student may be sufficiently disturbed and disturbing in a residence hall environment to make it essential that the family or others assume responsibility for the student's care; yet, the student's classroom behavior is sufficiently controlled and that he/she can be permitted to continue class work at a reduced load level. The student's behavior will be under review by the Office of Student Conduct during this time to insure appropriate conduct.

The intention of this policy is to provide another option for the student so that the student can receive treatment and still maintain an appropriate level of coursework.

If the student agrees to engage in counseling as required and to leave the University residence hall voluntarily, the Director of Housing and Residence Life, or his/her designee, is informed and will implement the withdrawal from the residence hall. If the student is required to engage in counseling and/or to leave the residence hall and is unwilling to do so, the VPSA or his/her designee will implement involuntary withdrawal from the residence hall or the University as provided in the Administrative Withdrawal section.

IV. Voluntary Withdrawal from the University for Disruptive Emotional Health Reasons

A voluntary withdrawal is defined as one in which the recommendation to withdraw a student for disruptive behavior related to emotional disturbance has been made by the Director of Counseling or his/her designee, or an off-campus evaluator, and the student concurs with the withdrawal recommendation. The professional staff is concerned with attempting to insure continued therapeutic help for the student outside the University community; therefore, the student's parents, spouse, or some other member of the family may be informed of the withdrawal and the need for arrangements for additional therapeutic care.

Normally, the VPSA or his/her designee will reach a decision about withdrawal in discussions with the student and the student's family. The decision is then conveyed to the Office of Student Conduct to authorize preparation of the University withdrawal form.

V. Administrative Withdrawal

A request for an administrative withdrawal is initiated by the university because of a disciplinary situation or when, in the professional judgment of a health care provider, psychologist and/or university administrator, there is reason to believe a student is a substantial threat to him/herself or interferes with the welfare of other members of the university, the education process, or the orderly operation of the university.

The Vice President for Enrollment and Student Experience or his/her designee, or the Vice President for Academic Affairs, or their respective designees, will notify the student of the involuntary withdrawal, and the Registrar will be directed to withdraw the student from all classes in which the student is currently enrolled and cancel registration that has occurred for any future terms. The Office of the Registrar will notify the student's instructors of the withdrawal, and "W" grades will be recorded for the term in progress.

A student who is administratively withdrawn will have a registration hold placed by the Office of Student Conduct or the Vice President for Academic Affairs to prevent the student from being readmitted or re-enrolled unless cleared by the appropriate administrator or the respective designee. A student may file a written appeal of an involuntary withdrawal through the office that administered the withdrawal. Tuition refund appeals for administrative withdrawals are handled in a separate procedure, and instructions may be obtained from the Bursar's Office.

VI. Medical Withdrawal

A student may request and be considered for a medical withdrawal from all courses in a term when extraordinary circumstances, such as a serious physical or mental illness or injury, prevent the student from continuing his or her classes after the midpoint of a term, and incompletes or other arrangements with the instructors are not feasible or possible.

A medical withdrawal must be substantiated with appropriate documentation from the attending health care provider. Once the rationale for a medical withdrawal has been validated by the Office of the Registrar, the student's instructors will be sent notification of the withdrawal, and "W" grades will be recorded for each course.

A student who requests a medical withdrawal, or an individual requesting a withdrawal on behalf of the student who is physically or mentally unable to request the withdrawal, should contact the Office of the Registrar to obtain medical withdrawal procedures. Tuition refund appeals for medical withdrawals are handled in a separate procedure, and instructions may be obtained from the Bursar's Office.

C. Emergency Removal of a Student from the University

Exceptional situations may occur in which a student is judged to be out of contact with reality and unaware of the consequences of his/her actions, or where the student is potentially harmful to himself/herself or others at that time. Action to remove the student from the university is taken by one of the following: VPSA, the Director of Student Conduct, Housing and Residence Life staff, University Counseling Center staff, or Health Services staff, in cooperation with the student's family if possible. Hospitalization may be required. Involving the student in these actions may not be possible because of the nature and degree of the student's illness. These situations are considered emergencies and one of the following offices will coordinate the efforts of the University: the Vice President for Enrollment and Student Experience, the Office of Housing and Residence Life, the University Counseling Center, Health Services, outside medical or psychiatric resources.

The VPSA will be involved in special emergency procedures and is immediately notified of the actions taken. As emergency situations, these cases fall outside the procedures stated above for voluntary withdrawals except that the student will be informed in writing of the rationale for the withdrawal recommendation and of his/her right to present any pertinent information in rebuttal to the withdrawal recommendation for consideration by the aforementioned.

Sexual Misconduct/Harassment: Title IX Compliance

The Office of Student Conduct ensures compliance with all Title IX requirements. The following can be expected for all cases/investigations that are designated as a Title IX incident:

- The Office of Student Conduct will provide a timely and thorough investigation, and will treat the complainant and respondent with respect before, during, and after the student conduct process. Barring exigent circumstances, cases of sexual misconduct or sexual harassment shall be resolved within a 60 day period once the incident has been reported.
- Once a decision has been rendered by either a student conduct officer or a University Disciplinary Committee, all of the involved parties will be informed of the decision in writing.
- All involved parties have five business days to appeal the decision rendered by either the student conduct officer or a University Disciplinary Committee.
- If any involved party appeals, all other parties will be informed and will have the opportunity to review the appeal materials. The other involved parties, if they choose to do so, can submit a statement of response within 5 business days of receiving notice of the appeal.

WKU reserves the right to take whatever measures it deems necessary to respond to an allegation of sexual misconduct/violence in order to protect student's rights and personal safety.

Measures include, but are not limited to, modification of living arrangements, interim suspension, and reporting to university police.

Sanctions imposed range from Disciplinary Agreement to Expulsion, depending on the severity of the offense. The Office will consider the concerns and rights of both the complainant and respondent of sexual misconduct.

Contact Information for the Title IX Coordinator and Deputy/Investigator:

Andrea Anderson, Title IX Coordinator Assistant General Counsel Craig Administration Center (270) 745-5398 Andrea.Anderson@wku.edu	Michael P. Crowe, Jr., Title IX Deputy Coordinator/Investigator Director of Student Conduct 425 Potter Hall (270) 745-5429 Michael.Crowe@wku.edu

The WKU Title IX website can be accessed through this link: http://www.wku.edu/eoo/titleix/index.php

University Non-Discrimination notice:

Western Kentucky University (WKU) is committed to equal opportunity in its educational programs and employment. The University is an Equal Employment Opportunity/Affirmative Action employer, and does not discriminate on the basis of race, color, national origin, sex, sexual orientation, disability, age, religion, veteran status, or marital status. On request, WKU will provide reasonable accommodations, including auxiliary aids and services, necessary to afford an individual with a disability an equal opportunity to participate in all services, programs, activities, and employment.

The University has published policies and procedures for investigating and/or addressing discrimination or harassment in its educational programs and/or employment. If you believe you have experienced discrimination or harassment in such programs, activities, or employment, policies and procedures are included on the following website: http://www.wku.edu/policies/ (WKU Policies), in addition to the WKU Student Handbook, and Undergraduate and Graduate Catalogs. These publications, including information about University procedures, are available on the University's website (www.wku.edu), at:

WKU Policies: http://www.wku.edu/policies/
WKU Student Handbook: http://www.wku.edu/handbook/
WKU Undergraduate Catalog: https://www.wku.edu/undergraduatecatalog/
WKU Graduate Catalog: http://catalog.wku.edu/graduate

The following person has been designated to serve as the University's **Title IX Coordinator**:

Ms. Andrea Anderson, Assistant General Counsel
Craig Administrative Center
1906 College Heights Blvd. #11001
Bowling Green, KY 42101-1001
andrea.anderson@wku.edu
270-745-5398

Information regarding WKU's Title IX compliance, policies, and procedures may be found on the following websites: https://www.wku.edu/eoo/titleix/index.php or https://www.wku.edu/studentconduct/titlenine.php.

In addition, information or assistance may be requested from the following:

Office of Equal Employment Opportunity/Affirmative Action/University ADA Services
Wetherby Administration Building, Room G33
1906 College Heights Blvd. #11009
Bowling Green, KY 42101-1009
Phone: (270) 745-5121

Department of Human Resources
Wetherby Administration Building, Room G25
1906 College Heights Blvd. #11003
Bowling Green, KY 42101-1003
Phone: (270) 745-5360

Academic Affairs & Provost's Office
Wetherby Administration Building, Room 239
1906 College Heights Blvd. #11008
Bowling Green, KY 42101-1008
Phone: (270) 745-2297

Inquiries about alleged discrimination may also be made directly to the Office for Civil Rights, U.S. Department of Education, The Wanamaker Building, Suite 515, 100 Penn Square East, Philadelphia, PA 19107, (215) 656-8548; the Kentucky Commission on Human Rights, 832 Capital Plaza, 500 Mero Street, Frankfort, Kentucky, 60601, (800) 292-5566; (TDD) (502) 595-4084; or the Equal Employment Opportunity Commission, 600 Martin Luther King, Jr. Place, Suite 268, Louisville, Kentucky 40202, (800) 669-4000; TTY (800) 669-6820.

Student Services and Activities

Student Activities

Charley Pride, Director of Student Activities
Downing Student Union, 2059
Phone: (270) 745-2459

The Student
Western Kentucky University students have a significant role in the internal governance of the University. Elected or appointed representatives of the student body serve with members of the faculty and administration on policy-recommending councils and committees. Student members of internal governance councils and committees are selected by the Student Government Association. For more information about the membership and function of these committees and councils, contact the Student Association Office, DSU 2045, 745-4354.

Student Life Policies
All university citizens enjoy the rights and liberties assured by the constitutions of the Commonwealth of Kentucky and the United States of America. Likewise, they are subject to the responsibility and obligation to accord respect to the rights of others.

Student Life policies are intended to foster student development and responsibility. Guided by these principles, the Department of Student Activities and Division of Enrollment and Student Experience maintains the mission of the University by ensuring that students are afforded opportunities for civic engagement with respect to the rights of others.

Students' rights, responsibilities, and the Student Code of Conduct are outlined in the Western Kentucky University Student Handbook on the Western Kentucky University website and in the Student Life section of this catalog.

Student organizations, activities and leadership programs make a great contribution to student life at WKU. All students are encouraged to become involved in organizations whose purposes and activities will contribute to their personal growth and development.

For more information on student activities and organizations, visit www.wku.edu/sao.

Dynamic Leadership Institute
WKU students are invited to apply for admission in the Institute. The Institute consists of four phases. Each phase is a semester with six workshops or activities that address a variety of leadership topics. Students are selected to represent a diverse group of ages, interests, and levels of leadership ability. Applications are available at the Leadership & Volunteerism office located in Downing Student Union, Room 2059.

High School Leadership Conference
The Kentucky High School Leadership Conference is held on the campus of Western Kentucky University each semester. This conference helps educate high school students on the importance of leadership and active involvement. Students from across Kentucky, Tennessee and Indiana gather to obtain information, insight and an understanding of leadership skills.

Leadership and Volunteerism
The Leadership and Volunteerism office provides a variety of opportunities to student that allow them to engage in developmental activities. This office engages students in numerous service projects including Midnight on the Hill for St. Jude's Hospital. Alternative Spring Breaks, Red Cross blood drives, Relay for Life activities and Student United Way. For more information call the office at 270 745-2060, or stop by Downing Student Union 2059, or visit our website at: http://www.wku.edu/sao/.

Volunteer Initiative Program (VIP)
The VIP exists to provide students with information about community service and volunteer opportunities in the Bowling Green area. Students have the opportunity to volunteer their time to local service agencies and get involved in the community. Volunteer opportunities range from one day events to semester long activities. There is something out there for everyone and the experience is priceless. The program is open to all WKU students, faculty and staff.

Weekend in the Woods
A special retreat is conducted each fall for selected campus freshmen to transfer information, focus on special topics, and promote campus unity. This retreat is part of an invaluable process that helps ensure student groups and their leaders are working toward the same goal—a better WKU.

Student Organizations

The Office of Student Activities works to provide co-curricular activities for those students who want to become involved at WKU. We have over 300 registered student organizations, ranging from Departmental, Campus Ministries, General Clubs, Honor Societies, Intramural/Rec, Professional, Service, Student Representative and Greek Life (Fraternity and Sorority).

Check Cashing Services

Two types of personal checks (maximum $50) may be cashed by the University Cashier's Office in room 208 of Potter Hall.

1. The check may be written by the student and made payable to WKU.
2. The check may be written by the student's parent and made payable to the student.

Western Kentucky University student payroll checks in any amount will be cashed. A student I.D. is required for check cashing services.

Checks may be cashed from 8:00 a.m. to 4:00 p.m., Monday through Friday, at Potter Hall during the fall semester through spring semester. Summer office hours vary.

A charge of $20.00 will be made for each check returned because of insufficient funds, closed account, or stop payment. The check cashing privilege will be denied to students after two checks have been returned for non-payment. Failure by a student to make prompt payment on returned checks may jeopardize his/her status with the university. Any unpaid, returned checks are subject to being turned over to the County Attorney's Office for collection. Students are advised that the passing of bad checks is a violation of Kentucky statute.

Counseling Center

Potter Hall, Office 409
Phone: 270-745-3159
Website: www.wku.edu/heretohelp

College should be challenging, not overwhelming. Sometimes students need help. The Counseling Center at WKU provides the following:

1. Individual, couples, and group counseling services for currently enrolled students.
2. Educational programs for classes, organizations, and departments.
3. Consultation to faculty and staff regarding student behavior.
4. Referrals to psychiatrists, psychologists, and counselors outside of the university.
5. Crisis/emergency assistance for situations that arise on campus or in our community.

Downing Student Union

David Emerson, Associate Director of Student Activities
Downing Student Union
Phone: 270-745-5793
Website: www.wku.edu/dsu

The Downing Student Union is truly the crossroads of WKU! Located on the ground floor are The WKU Store, Post Office & Print Center. On first floor, visitors will find the Downing Student Union Operations Office, Fresh Food Company, the Food Court, The Red Zone, Starbucks, Burrito Bowl, Student Accessibility Resource Center, a Study Lounge, the Recreation Room, and a 633-seat Auditorium. Located on the second floor are the Office of the Dean of Students, The Center for Career and Professional Development, Advising and Career Development Center, Transfer Center, Student Government Association (SGA), Offices for Student Activities and Leadership & Volunteerism Program, The Intercultural Student Engagement Center, The Gallery, administrative offices for the WKU Restaurant Group, the Spirit Masters Office, and the ID Center. And, the third floor has various sizes of meeting and multipurpose rooms. To reserve space in the Union please visit https://www.wku.edu/dsu/.

Intercultural Student Engagement Center

Dr. Martha Sales, Director
Downing Student Union, Office 2041
Phone: 270-745-5066; Fax 270-745-5273
Website: www.wku.edu/studentaffairs

The Intercultural Student Engagement Center promotes a culturally inclusive campus environment, cultural awareness and competence, inter-group dialogue, engagement and intercultural interaction, and supports lifelong learning about self and others. The office serves as a hands-on recruitment and retention resource for the many cultural, religious/spiritual, and identity groups reflected within the WKU community. The Center provides student support services to foster academic success and sponsors culturally based celebratory events.

Staff within the Intercultural Student Engagement Center carry out programmatic initiatives designed to increase the cultural competency of students, faculty, and staff. Additionally, Center staff manages respectful spaces for students to learn about themselves and others through meaningful experiences, dialogues, and opportunities for growth.

Health Services

1681 Normal Drive
Phone: (270) 745-CARE (2273)
Websites: www.wku.edu/healthservices
www.gravesgilbert.com/ggcwkuhealthservices

Graves Gilbert Clinic Health Services is a full service primary care center dedicated to providing the WKU campus and community with quality medical care and health promotion services. On site services include physician and nurse practitioner office visits, psychiatric mental health, women's and men's health, ECG, laboratory, x-ray, allergy shot administration, immunizations, STI testing/treatment, contraceptives, physicals, drug screenings, occupational health, health education and wellness services. In addition, Graves Gilbert Clinic is a multi-specialty group with access to a broad array of in-depth health care services.

The staff includes Board Certified Medical Doctors (Family Medicine and Internal Medicine), Nurse Practitioners, registered medical assistants, x-ray and lab technicians. The Clinic is a provider for many insurance plans and will be listed in your group's provider list if we are participating in your plan. Patients need to bring a current copy of their health insurance card, photo id, and applicable co-pay for each visit. Failure to present your insurance card(s) at registration may result in you being considered a self-pay patient with the accompanying expectation of payment at the time of service. If you do not have insurance coverage, at least a partial payment will be expected at the time of service. If charges are not paid in full on the date of service, you will be requested to provide the Financial Counselor with credit or debit card information. We accept BIG RED CARD for co-pays and payments.

As a courtesy, we will file insurance when appropriate or bill the patient directly. Our current hours for the fall/spring semester are Monday through Thursday 7:30 am – 7:00 pm and Friday and Saturday 7:30 a.m. – Noon. Physicians will be providing after hour call coverage with access to Urgentcare and Emergency Room Services if needed.

Domestic students that are interested in purchasing the student health insurance plan should contact Steve Rey via email (steve.rey@wku.edu) or by phone at 270-745-6060.

International students that are interested in purchasing the student health plan should contact Toni Dye via email (toni.dye@wku.edu) or by phone at 270-745-4857.

Identification Card

ID Center
Downing Student Union, Room 2125
Phone: (270) 745-2417; Fax: (270) 745-2650
Website:www.wku.edu/idcenter

All full-time and part-time students are issued a personal identification card (WKU ID Card). The ID card contains a photo image, the student's name, and WKU ID number. The ID card entitles the full-time student to admission to campus athletic events, use of recreational facilities in the Student Union at student rates, admission to the Preston Center, check-out privileges at the library, and other general University services. It can also be used as a debit card at all Restaurant Group facilities, the WKU Store, WKU Postal Services, Student Health Services, selected vending machines, laundry machines, and more. The ID card for part-time students provides similar privileges as received by full-time students detailed above with the exception of admission to some recreational activities unless an additional fee is paid. The ID card is not transferable and is valid for the duration of one's college career at WKU. Students are expected to carry their ID card at all times and to present the card upon request by University Officials. The WKU ID Card must be surrendered upon demand if revoked by a University Official. The University is not responsible for any loss or expenses resulting from the loss, theft, or misuse of this card. If the card is lost or stolen, it must be replaced at a cost to the student. Application for replacement of an ID card should be made at the ID Center. The ID card is the property of Western Kentucky University.

Intercollegiate Competition

WKU is a member of Conference USA, the Football Bowl Subdivision, and the National Collegiate Athletic Association. Over a two-year span in the league, WKU has captured a league-high 14 conference championships and two football bowl championships and has led the league in total conference championships each season. During the 2015-2016 academic year, 102 student-athletes graduated with their undergraduate, graduate or doctorate degrees and posted an average cumulative GPA of 3.12. For the first time in program history, every WKU athletic team posted a 950 or higher score in the NCAA's annual Academic Progress Rate (APR) metric, 20 points above the NCAA-mandated minimum.

A comprehensive program of intercollegiate competition in forensic activity is afforded to qualifying students at WKU. Western Kentucky University's speech and debate team is consistently ranked as one of the top teams in the nation (having won 9 American Forensics Association Championships and 13 National Forensics Association Championships since 2003). WKU has won the Lincoln Douglas Debate Team National Championship 13 out of the last 14 years. WKU is the first and only team in history to win the Debate Team Championship for six consecutive years and the first and only team to ever close out the national final round of competition WKU's forensics team has won the International Forensics Association World Championship ten times out of ten total attempts. WKU's forensics team is also the only organization to win the AFA National Championship, the NFA Individual Events Team championship, and the NFA Debate Team Championship in the same season, a feat WKU has accomplished nine times since 2003.

The vision of WKU Forensics is to empower students through competitive speech and debate to improve themselves and their communities. Guided by the core values of discipline, innovation, gratitude, leadership, and unity, this highly competitive program offers the student an opportunity to demonstrate academic excellence and to excel in a competition of the intellect. The forensics team is a member of Pi Kappa Delta, the American Forensics Association, the National Forensics Association, and the Kentucky Forensics Association.

Other forms of intercollegiate competition include business teams and agricultural teams in Equitation, Livestock, Dairy and Horse judging.

Intramural-Recreational Sports

Stephen Rey, Director
Email: Steve.Rey@wku.edu
Raymond B. Preston Health and Activities Center, Office 54a
Phone: 270-745-6060; Fax: 270-745-2006
Website: www.wku.edu/imrec/

The Department of Intramural-Recreational Sports is located in the Raymond B. Preston Health and Activities Center. "Recreation, Fitness, and Fun...Steps To Life Long Activity" expresses the philosophy of this office and one that is implemented by providing recreational and healthy lifestyle opportunities for the university community.

The Raymond B. Preston Health and Activities Center is a 126,000 square foot facility that opened in 1992. It houses six basketball/volleyball/badminton courts, six racquetball courts, two indoor tennis courts, a swimming pool, a fitness center containing cardiovascular, selectorized strength and free weight equipment, a suspended indoor running track, a dance studio, separate faculty/staff and student locker rooms, a multipurpose room, a smart class room, a Health and Fitness Lab, an Outdoor Recreation and Adventure Center, a pro-shop, a bike repair shop, and the Intramural-Recreational Sports Office.

Preston Center membership fees for all full-time students are included in their tuition during the fall and spring semesters. Part-time students carrying three or more hours may choose to pay for membership ($35.00) on a semester basis. Memberships are available for students' spouses and their children. Summer memberships are also available.

The Intramural-Recreational Sports program provides students, faculty and staff an opportunity for participation in constructive recreational activities. This program consists of men's and women's competitive sports, co-recreational sports, faculty/staff activities, recreational free-play, outdoor recreation, sport club activities, instructional programs, fitness services, nutritional education and fitness classes.

The men and women's intramural sport programs are designed to give each student the opportunity to compete in sports and games of his / her choice. Activities included in these programs are badminton, basketball, battleship, fitness combine, dodge ball, flag football, athletic combine challenge, 3 on 3 hoops tournament, billiards, March Madness bracket challenge, pickle ball, NFL Pro Pick 'em, putt putt golf, racquetball, soccer, softball, walleyballl, table tennis, trashketball, futsal, 3 point challenge, volleyball, whiffle ball home derby, and several extramural events. The faculty and staff at WKU may participate in the intramural sport program.

The sport club programs help students develop a higher skill level in a particular sport or activity. Each club must be organized and motivated through students' interests and has a faculty advisor. Active sport clubs include badminton, bowling, Brazilian Jiu Jitsu, disc golf, dodge ball, fencing, field hockey, lacrosse, paintball, racquetball, rugby, soccer, sports officials, tennis, triathlon, ultimate frisbee, and volleyball. Other sports can be represented if there is sufficient student interest.

The Hattie L. Preston Intramural Sports Complex, located two miles from campus on the corner of Campbell Lane and Industrial Drive, presents a significant addition to the Intramural-Recreational Sports Department's facilities. Twenty-four acres were developed and include eight flag football fields, four softball fields and a combination soccer, rugby, and lacrosse field. In the Fall of 2000, state of the art lighting, scoreboards and irrigation systems were added. The centerpiece of the Sports Complex is the two-story field house, which has administrative offices, a lounge, scorekeeping areas, a concessions area, restrooms and a storage area.

The Health & Fitness Lab, located in the Preston Center, provides clinical and educational services to students, faculty and staff of Western. The Health & Fitness Lab is staffed by degreed and certified fitness professionals, and trained students who are eager to help you address your personal health & fitness needs. The Lab provides all the fitness programming in the Preston Center including group fitness classes and various fitness assessments, exercise prescriptions, weight training orientations, and nutritional counseling and education services. Other programs offered are personal training, massage therapy and instructional programs such as yoga, dance lessons, self-defense courses, boot camp programs and much more! Stop by room 20a in the Preston Center to learn more or sign up for any of their services, or check out their website at www.wku.edu/healthfitnesslab. (A separate fee is required for these services).

WellU® is the student wellness program at WKU that collaborates with other student services and programs on campus. It is designed to help students engage in services that promote healthy habits and success in the classroom and life in general. Funded by the J. Clifford Todd, Professorship in Longevity & Healthful Living Fund, the Mission of the WellU® program is to unify student health promotion efforts at WKU. The WellU® program gives away $20,000 in scholarships and prizes every year to students for active participation. Check out this great opportunity at www.wku.edu/awellu.

Wholesome WKU is to educate and motivate WKU students, while collaborating with the community, concerning the importance of maintaining wholesome nutrition for their health. Wholesome WKU provides the WKU campus with educational information covering a wide variety of nutrition-related topics and events. Students have access to healthy options all over campus to complement their demanding schedule. The Wholesome program works to provide healthier alternatives to everyday food choices, and provide students with necessary information to make smarter, healthier choices while on campus. Look for the Healthier Eating Guide all over campus to help identify healthier options with a meal swipe. Don't forget to check out our blog, Hilltopper Nutrition, for information on our favorite nutrition topics. Wholesome WKU is located in the Health Services Building on campus.

The WKU Health Education & Promotion Program (HEP), located in the Health Services Building adjacent to the Preston Center, provides health education and promotional programming to the student population by assisting in making behavioral changes that enhance all dimensions of health and wellness. Health Education and awareness is offered through a variety of services and programs allowing students to be successful at WKU and beyond. For more information about programs and services, please visit our website at: http://www.wku.edu/hep/, or email us at healthed@wku.edu.

The program targets other campus stakeholders/departments, peer health educators, interns and community organizations to partner in providing educational forums/presentations, workshops, referrals, individual appointments, training programs, and resource materials to educate students. Topics include but are not limited to: alcohol, stress and time management, sleep management, healthy relationships, sexual health, men's and women's health, cold and flu prevention, cancer, nutrition, exercise, mental health issues, tobacco and other drugs, and healthy body image/eating disorders. The program incorporates theory and an evidence-based approach including multi-level prevention strategies such as research and data management, advocating for health environmental changes, providing free HIV testing and prevention counseling services, online alcohol and marijuana self-assessments, quit tobacco services, health communication campaigns/publications and more.

The Outdoor Recreation Adventure Center (ORAC) at Western Kentucky University offers a variety of outdoor programs for the university community at minimal cost to participants. Our goal is to enrich the campus experience through outdoor and cultural immersion experiences for a lifetime of fun and healthy living. Our main offering is our outdoor trips. We offer both local and nation-wide trips taking participants to places such as the Great Smoky Mountains, Rocky Mountain, and the Buffalo National River. The activities we participate in are unique on campus and include rock climbing, canoeing, backpacking, mountain biking, and dog sledding. Aside from our trips, we provide the campus community with a wide selection of outdoor rental equipment for those who wish to plan their own adventures. Last, but certainly not least, we provide the campus with a full service bike repair shop fully showcasing our commitment to enriching the campus experience. For more information please contact our office at 270-745-6545. Our friendly staff is there Monday, Tuesday, Thursday, and Friday from 12 to 6pm.

The ORAC manages the WKU Challenge Course which features both high and low ropes elements. The WKU Challenge Course is located at the WKU Agricultural Farm. The WKU Challenge Course provides team-building experiences to foster group cohesiveness and self-empowerment. Activities at the course range from ground based problem-solving to traversing high course elements or zip lining 40 feet in the air. With 10 low course elements and 12 high course elements, the sky is the limit for what you can accomplish at the course. You can experience the Challenge Course either by scheduling a group or by taking an academic course. Visit https://www.wku.edu/challengecourse/ for more information!

Student employment is available in the Intramural-Recreational Sports Department in the following areas: receptionists, front desk attendants, facility supervisors, weight room attendants, lifeguards, aerobics instructors, office assistants, personal trainers, health & fitness lab assistants, intramural supervisors, sport club supervisors, and sport officials. We also have employment in the areas of website design, data programming, public relations, and marketing.

Students interested in any aspect of the Intramural-Recreational Sports programs may come to the Intramural-Recreational Sports offices to obtain information or may phone the office at 745-6060. The offices are located on the 2nd floor of Preston Center, and are open Monday through Friday from 8 a.m. - 4:30 p.m. Check us out on the web at www.wku.edu/imrec.

Lost and Found

A centralized lost and found service is located in Downing Student Union. The telephone number is 270-745-5793.

Military Student Services

Tonya Archey, Director
Tate Page Hall, Office 408
Phone: 270-745-5837
Email: military@wku.edu
Website: www.wku.edu/veterans

Western Kentucky University is committed to providing exceptional and affordable options to our military students. The Office of Military Student Services leads initiatives and offers unique programs to ensure the educational success of our total military student population including active duty, guard, reserve, veterans, and their family members. Visit www.wku.edu/veterans to discover services and programs available, a few of which are:

- A Veterans Resource Center located in Tate Page Hall 410.
- Free textbook loans to eligible students through the Textbooks For Troops program.
- Discounted Tuition Rate for active duty, reserve, and National Guard members.
- Federal Tuition Assistance help for all active duty service members from all branches. GoArmyEd, and AI portal assistance is available in Tate Page hall 408.

Since 1972 WKU has provided educational opportunities on post at Ft. Knox. WKU also offers the only Veterans Upward Bound program in KY, an award winning Army ROTC, an Air Force ROTC program, and so much more.

Western Kentucky University is committed to ensuring flexibility toward obtaining a degree to service members, as stated in the Higher Education Relief Opportunity for Students (HEROES) Act of 2003. Several WKU policies apply specifically as mentioned below:

1) The Military Absence policy permits military and veteran students to make up missed work, tests, and quizzes (see page 30 for more details).
2) The Military Withdrawal policy permits an active duty service member the ability to withdraw from a course or the entire schedule of classes, and receive a tuition and fee refund (see page 35 for more detail).
3) A degree term extension is available, if needed (see Catalog Term policy on page 37 for more detail).
4) Active duty service members may request a grade of incomplete if a relatively small amount of work is not completed, allowing an extension due to deployment**.**

Priority Registration is granted to Active Duty and military veterans utilizing the GI Bill.

WKU also supports and complies with the U.S. Department of Education Readmission policy, which is:
http://www.ecfr.gov/cgi-bin/text-idx?SID=39e00d2cf51750ff02f3872015b89388&mc=true&node=se34.3.668_118&rgn=div8

Police Department

Mitch Walker, Chief of Police
Business Number: 270-745-2548,
Emergency Number: 911
Fax Number: 270-745-5275
Email: wkupolice@wku.edu
Website: www.wku.edu/police/

The mission of the Western Kentucky University Police Department is to provide a safe and secure atmosphere that is conducive to learning and teaching.

The Western Kentucky University Police Department is dedicated to supporting this environment through the protection of life and property, preservation of peace, providing proactive Crime Prevention Programs, and enforcing the regulations of Western Kentucky University, the ordinances of the City of Bowling Green, and the statutes of the Commonwealth of Kentucky, in a fair and impartial manner.

Further, the Western Kentucky University Police Department is committed to providing a "Community Policing" Philosophy in its approach to law enforcement, which is a partnership between faculty, staff, students and police officers that is predominantly service oriented.

The Western Kentucky University Police Department pledges to:

- Maintain a "Service Oriented" department, providing the university community with an exceptional level of law enforcement resources.
- Continue to be an integral part of the university community, by tailoring officer training to areas that will better prepare us to meet the varied needs of our faculty, staff, and students, and guests.
- Continue to be an integral part of the larger Warren County Law Enforcement Community, so that all available resources can be used to benefit and inform the university community of relevant information.
- Be more sensitive to the needs of a diverse university community, making our faculty, staff, students, and guests feel welcome on our campus.
- Increase proactive approaches to the level of law enforcement on campus that will discourage repeated criminal activity.

Postal Services

Downing Student Union, Ground Floor
Phone: 270-745-3093; Fax: 270-745-2709
Website: www.wku.edu/postal

The University operates a post office, which is located on the ground floor of the Downing Student Union. The Post Office is open 8:30 a.m. to 4:30 p.m., Monday through Friday, except when the University is closed. We are a full service Post Office with Passport Services, Fax services, Mail Box rentals, and Packaging items. The University Mail Center located in the Service/Supply building delivers official campus mail to residence halls Monday through Friday. All incoming mail from off campus is delivered to residence halls by the Bowling Green Post Office. Therefore, it is imperative that a student furnishes his/her complete mailing address as early as possible to all correspondents.

Restaurant Group

WKU Restaurant Group offers a wide variety of dining options…many that will fit your wants and needs.

Top of the Hill:

Chili's Grill & Bar at Alumni Square Garage - Chili's offers a fun, energetic atmosphere for everyone. This American casual dining restaurant provides a distinct, flavorful mix of Southwestern Tex-Mex style cuisines. Don't forget that Chili's accepts Meal Plan Dollars as well, so stop by and see us soon! Located at 268 Alumni Avenue between the Augenstein Alumni Center and the adjacent parking structure near the campus' edge. Free parking is available in the Alumni Square Garage.

DaVinci's in Snell Hall - A Panera Bread style restaurant, DaVinci's offers fresh baked muffins, stuffed croissants, wraps, bagels and hot bagel breakfast sandwiches each morning; easy for the student that is on the go. The lunch menu includes a wide variety of soups, salads, gourmet chips, signature selection sandwiches and wraps made to order. The original menu provides a diverse selection of convenient ready-to-go salads and sandwiches, making it especially well-suited for customers on a tight schedule. The options at DaVinci's are available for breakfast and lunch as well as for a mid-morning or afternoon snack. Located in Snell Hall.

Garrett Food Court - Located at the top of the hill in Garrett Conference Center, Garrett Food Court has something for everyone. Papa John's Pizza offers Papa's Pizza for One and parmesan breadsticks. You'll also find made-to-order pasta at Bene Pasta, giant burritos, quesadillas and queso at Izzi's Southwest, great burgers and chicken at Grille Works and Mediterranean-inspired food at OLILO by Cat Cora. With lots of grab and go items, you are sure to find what you are looking for.

Subway @ Garrett - Eat fresh! With two on-campus locations, you can always find time to stop in. Subway @ Garrett has all the sandwiches, soups and pizzas that Subway offers. Located in Garrett Conference Center.

Panda Express - Panda Express features Mandarin and Szechwan wok-cooked entrées. Entrées include favorites like broccoli beef, orange chicken, and Kung pao chicken. Panda Express is located just one floor above the Garrett Food Court in the Garrett Conference Center.

Topper Grill & Pub - Topper Grill & Pub provides customers with a wide variety of menu options, while also keeping the classic options that everyone loves. Topper Grill & Pub serves pizzas, sandwiches, burgers, wraps and much more, so stop by and eat with us! The entrance is located at the opposite end of Garrett Conference Center as Panda Express.

Java City Library - Java City offers gourmet drinks and pastries in addition to sandwiches ready to grab on the run. Whether you're on your way to class or here to relax and socialize, Java City provides the perfect atmosphere and the best selection of all of your favorite treats. Located in Helm Library.

Center of Campus:

NEW Fall 2018! Hilltopper Hall – WKU's only 24-hour dining location offers all-you-care-to-eat options at any hour of the day. Located in the newest residential hall, Hilltopper Hall.

P.O.D. Market @ Bates Runner Hall - Provisions on Demand (P.O.D.) offers a variety of fresh food, produce and everyday essentials that deliver quality, selection and value. Quite simply, P.O.D. is committed to giving people the stuff they want when they want it. Located in Bates Runner Hall and connected to the SUBWAY @ Bates.

Subway @ Bates Runner Hall - SUBWAY® is located on the ground floor of Bates Runner Hall. It offers a delicious variety of foot long and 6-inch sandwiches, salads and wraps that are made with a wide assortment of meats, cheeses, vegetables and toppings. All SUBWAY® sandwiches are made on freshly baked bread and are prepared right before your eyes, just the way you like it.

Fresh Food Company – Providing our guests with the highest quality foods prepared right before your eyes, The Fresh Food Company offers one of the most exciting dining experiences on campus. It features authentic upscale foods from 'mini-restaurants' – Deli, Dessert, Home, Mongolian Grille, Oven, The Produce Market, Sauté and more. Our chefs are ready to serve you a changing menu of specialties including daily vegan/vegetarian options, home-style comfort foods, hand-tossed pizza, made-to-order pasta, a full salad bar, deli offerings, fresh whole fruits and gluten friendly items just to name a few. The Fresh Food Company is a great place to get what you crave and catch up with your friends. Continuous dining from 7 a.m. to 8 p.m. most nights! Located on the Downing Student Union first floor.

DSU Food Court - Whether you're in the mood for a burger, chicken or pizza, the DSU Food Court has something for everyone. Papa John's, Steak 'n Shake and Chick-fil-A are all conveniently located in the heart of campus. Have a gathering? Need a pizza? No problem! Call ahead with Papa John's at DSU and we'll get it ready for you!

RedZone – WKU's sports themed restaurant, RedZone has something for everyone from wings, nachos and amazing queso to soups, salads and sandwiches. No matter what you are craving you can find it here! Located on the DSU first floor behind the DSU Food Court.

Burrito Bowl - Authentic. International. Bold. Located in the Downing Student Union, Burrito Bowl is one of the hippest restaurants on campus! Whether you are health-conscious or you want to try food from around the world, Burrito Bowl has you covered! From Sweet and Spicy Korean to Cajun Rice Bowls, Burrito Bowl has it all.

Starbucks – Starbucks is one of the hottest spots on campus! Enjoy one of the famous coffee beverages, teas, pastries or sandwiches any time throughout the day. Located on the Downing Student Union first floor.

Bottom of the Hill:

Einstein Bros. Bagels – with its generous selection of freshly-baked bagels, bagel sandwiches, and premium gourmet coffee, as well as, made to order sandwiches, salads, fresh fruit, blended drinks and healthy snacks, this popular brand provides a pleasant start to the day or an afternoon break from the campus routine. Einstein Bros. Bagels' "Darn Good Food" menu selection also offers many low-fat and low-carb options to appeal to customers' desires for healthier options. Located in Jody Richards Hall.

The Den by Denny's @ Tower Court – This is a place with a vibe. Where you step right up to the counter and order from a wide array of items. The menu is breakfast all-day, plus sandwiches, burritos, salad – all made the way we eat today. Saucy, spicy, slightly unruly, proudly old-schooley. (Hand mixed shakes, anyone?) This is "The Den". Located next to Pearce Ford Tower.

Pit Stop Convenience Store – Offers a variety of everyday essentials for snacks on the go or for your room. Located next to Pearce Ford Tower.

We offer economical and convenient Meal Plans for all students. For additional information or to sign up for a Meal Plan or Dining Dollars account, visit www.wku.edu/wkurg or stop by our office in Downing Student Union Room 1047. Questions may be answered by calling (270) 745-2416.

The Student Accessibility Resource Center

Robert Unseld, Director
Matthew Davis, Coordinator
Downing Student Union, Room 1074
Phone: 270-745-5004, Fax: 270-745-6289
TDD: 270-745-3030
Email: sarc.connect@wku.edu
Website: www.wku.edu/sarc

Students with disabilities sometimes need assistance to ensure an adequate academic and social environment while attending the University. This assistance is usually provided through the Student Accessibility Resource Center (SARC). SARC coordinates its activities through individual faculty members, other campus offices, and public agencies. Students with disabilities receive accommodations specific to their individual disability and/or impairment. These accommodations may include: note takers, extended time on tests, a distraction-free testing area, textbooks on CDs, priority in academic advising/registering, etc. Particular attention relates to assuring accessibility in classrooms, laboratories, and housing. Interpreting and captioning services are available for Deaf and Hard of Hearing students. If a student with a disability has special concerns or needs before he/she attends the University, or if he/she encounters problems while enrolled on campus, he/she is encouraged to contact the SARC office. Both consultation and technical assistance are available.

Student Ombuds Officer

The Student Ombuds Officer serves as an information source and point of communication for students who believe they may have a personal grievance. The Ombuds Officer's role does not replace existing University policies for academic complaints or conflict/grievance resolution. For additional information or to contact the Student Ombuds Officer, visit https://www.wku.edu/academicaffairs/em/student_ombuds.php or call 270-745-8985, email: student.obudsman@wku.edu.

WKU TRIO Programs

Dr. Martha Sales, Director of TRIO Programs
Email: Martha.Sales@wku.edu
Jones Jaggers Hall, Office 100A
Phone: 270-745-3757
Website: www.wku.edu/trio

TRIO is a set of federally-funded college opportunity programs that motivate and support students from disadvantaged backgrounds in their pursuit of a college degree. Trio serves over 850,000 low-income, first-generation students and students with disabilities. TRIO programs provide academic tutoring, personal counseling, mentoring, financial guidance, and other supports necessary for educational access and retention. TRIO programs provide direct support services for students, and relevant training for directors and staff.

Educational Opportunity Centers

Charlene Manco, Director
Email: Charlene.Manco@wku.edu
Email: EOC@wku.edu
Jones-Jaggers Hall, Office 107
Phone: 270-745-4441; Fax: 270-745-2003
Website: www.wku.edu/eoc

The Educational Opportunity Centers (EOC) program is designed to provide information regarding financial and academic assistance to individuals, age 19 and older, who desire to pursue a program of post-secondary education. The program assists these adults in preparing necessary applications for use by admissions and financial aid officers. Additional services include financial aid and career exploration workshops. To be eligible for the program, a participant must reside in one of the following counties: Allen, Barren, Butler, Edmonson, Hart, Logan, Simpson, or Warren. The individual must meet federal income guidelines and/or qualify as a first generation college student. All services are free of charge to eligible individuals. Individuals who are interested in receiving information about the program are encouraged to contact the main office at 270-745-4441. Outreach Centers are located in Allen, Barren, Butler, Hart, Logan, and Simpson counties. Individuals outside Warren County can contact the EOC at 1-877-753-0005 to receive locations and office hours of the Outreach Centers.

Educational Talent Search

Dr. Martha Sales, Director
Email: Martha.Sales@wku.edu
Email: ets@wku.edu
Jones Jaggers Hall, Office 100A
Phone: 270-745-3757
Website: www.wku.edu/ets

Educational Talent Search (ETS) provides educational guidance services to assist eligible middle and high school youth in achieving their full educational and career potential. Services are free to all participants. Western Kentucky University houses three Educational Talent Search Programs. ETS 1 serves the following counties: Allen, Butler, Cumberland, Edmonson, Hart, Logan, Metcalfe, and Monroe. Both group and individual educational, career, and financial aid counseling services are provided to middle and high school participants at their schools. Examples of topics covered in group sessions are ACT preparation, study skills, career decision-making, college life orientation and financial aid information. Middle school and high school participants may take field trips to colleges and to other educational settings. ETS also offers assistance to participants with special needs by identifying support services. For more detailed information, contact the ETS office.

Educational Talent Search 2
Bowling Green/Warren County

Mr. Brian Brausch
Email: Brian.Brausch@wku.edu
Email: ets@wku.edu
Jones Jaggers Hall, Office 100A
Phone: 270-745-3757
Website: www.wku.edu/ets

Educational Talent Search (ETS) provides educational guidance services to assist eligible middle and high school youth in achieving their full educational and career potential. Services are free to all participants. Western Kentucky University houses three Educational Talent Search Programs. ETS 2 serves the following counties: Bowling Green City/Warren County schools: Bowling Green, Greenwood, Warren East, Warren Central, and their affiliated middle schools. Both group and individual educational, career, and financial aid counseling services are provided to their participants at their schools. Examples of topics covered in group sessions are ACT preparation, study skills, career decision-making, college life orientation and financial aid information. Middle school and high school participants may take field trips to colleges and to other educational settings. ETS also offers assistance to participants with special needs by identifying and connecting students to support services. For more detailed information, contact the ETS office.

Educational Talent Search - Barren County/Simpson County

Ms. Denise Hardesty
Email: Denise.Hardesty@wku.edu
Email: ets@wku.edu
Jones Jaggers Hall, Office 100A
Phone: 270-745-3757
Website: www.wku.edu/ets

Educational Talent Search 3 (ETS3) provides educational guidance services to assist eligible middle and high school youth in achieving their full educational and career potential. Services are free to all participants. Western Kentucky University houses three Educational Talent Search Programs. ETS 3 serves the following counties: Barren and Simpson. Both group and individual educational, career, and financial aid counseling services are provided to middle and high school participants at their schools. Examples of topics covered in group sessions are ACT preparation, study skills, career decision-making, college life orientation and financial aid information. Middle school and high school participants may take field trips to colleges and to other educational settings. ETS also offers assistance to participants with special needs by identifying support services. For more detailed information, contact the ETS office.

Student Support Services

T. Chris George, Director
Email: **chris.george@wku.edu**
Jones-Jaggers Hall, Office 132
Phone: 270-745-4308; Fax: 270-745-6850
Website: www.wku.edu/sss

Created for the express purpose of increasing the retention and graduation rates of program participants, the Student Support Services program provides comprehensive continuing academic assistance for 225 undergraduate students with academic potential who meet financial guidelines, and/or are from families where neither parent holds a bachelor's degree or are a student with a documented disability. The project offers individualized peer tutoring in a wide variety of developmental courses; professional counseling for academic, personal, and career concerns; restricted sections of UE 175 (University Experience) that are limited to 20 fall freshman participants; and provides access to campus and community cultural events.

In addition, participants in good standing earn priority status each semester during the course registration process and are eligible to share in supplemental grant monies awarded annually by the US Department of Education earmarked exclusively for Student Support Services participants. The program, in coordination with the Office for Student Disability Services, also offers individual assistance to qualified students with disabilities (including learning disabilities) in need of accommodation. All services are free of charge to qualifying students. Students seeking assistance who have yet to achieve junior standing can determine their eligibility and apply for services at the program offices or call 270-745-4308. Applications are reviewed on an on-going basis. Admission to the program is not guaranteed. A successful applicant must be academically motivated and committed to participating in all aspects of the program.

Upward Bound

Cameron Carr-Calvert, Director
Email: Cameron.Carr-Calvert@wku.edu
Jones Jaggers Hall, Office 100
Phone: 270-745-4873; Fax: 270-745-2031
Website: www.wku.edu/upwardbound

An educational outreach program, Upward Bound provides academic classes, counseling, tutoring, and cultural/social enrichment activities to eligible high school students in a five-county area (Allen, Butler, Edmonson, Hart and Logan). Program participants, who have potential to succeed in college and/or career-technical school with some additional academic/motivational support, must meet federal financial guidelines and/or be from families where neither parent holds a bachelor's degree. Specific individual/group activities covered throughout a student's participation in the program include career information, study skills information, ACT preparation sessions, college admissions information, and financial aid workshops. Individual counseling sessions take place with each student at his/her high school throughout the academic year with tutoring and cultural enrichment sessions being offered one Saturday per month. Students participate in a six-week summer residential program at WKU, which emphasizes academics and cultural/social enrichment.

Veterans Upward Bound

Davy Stone, Director
Jones-Jaggers Hall, Room 127
Phone: 270-745-5310; Fax: 270-745-5987
Email: Veterans.Upward.Bound@wku.edu
Website: www.wku.edu/vub
Facebook: www.facebook.com/vubwku

Veterans Upward Bound is a pre-college program that provides academic services to prepare eligible veterans to enter postsecondary school. All participants must reside within an eight county area that includes: Allen, Barren, Butler, Edmonson, Hart, Logan, Simpson and Warren. Participants must have served on active duty for more than 180 days and have been discharged under conditions other than dishonorable, or served on active duty and been discharged due to a service-connected disability, or have been a member of a reserve component and called to active duty for a period of more than 30 days. Additionally, participants must meet federal income guidelines and/or come from a family where neither parent possesses a baccalaureate degree.

Primary goals of the program include enhancement of academic skills, assistance with postsecondary admission and enrollment, advising on financial aid and VA educational benefits, and assistance with career goal setting.

All services are provided free of charge to eligible participants. Anyone interested in receiving additional information may contact the program at: Veterans Upward Bound, Western Kentucky University; 1906 College Heights Blvd #11098, Jones-Jaggers Hall 127, Bowling Green, Kentucky 42101-1098.

WKU Store

Downing Student Union
Phone: 270-745-2466
Website: www.wkustore.com

The WKU Store has been owned and operated by Western Kentucky University since 1923. All purchases made at the store help support WKU students, faculty and staff. The WKU Store provides the largest in-town selection of used and rental textbooks—including custom texts and digital formats. The store is an Apple authorized seller featuring Macbooks, iMacs, iPads and accessories as well as Dell, Acer and other brands. Also, voted Bowling Green's #1 place for WKU apparel and merchandise.

They offer a Textbook Reservation Program for Fall and Spring semesters. The WKU Store is also the only place where students can bill textbooks and supplies to their University Bill at the beginning of each Fall and Spring term.

Visit the Main Campus Store on the first floor of Downing Student Union. Thanks for shopping your WKU Store!

A

Academic
- Achievement, Recognition of, 39
- Advisement, 17
- Bankruptcy (see Academic Renewal), 34
- Calendar, 3
- Deans, 3
- Definitions, 58
- Dishonesty, 34, 368
- Dismissal Appeal, 34
- Eligibility & Financial Aid, 25
- Freedom, 32
- Information, 30
- Offenses, 34
- Outreach, 361
- Probation, 33
- Programs, 59
- Renewal, 34
- Requirements & Regulations, 30
- Scholarships, 26
- Standing, 33, 37
- Standing, Probation and Appeal, 33
- Warning, 33

Academy of Mathematics and Science in Kentucky,358
- Accounting, Department of, 133
- Accounting, Pilot and Bridge Project, 49, 134
- Accreditations, 6
- ACDC, 17
- ACT Credit, 50
- Acting, 123
- Administrative Withdrawal, 35, 380

Admission
- Transfer Students, 11
- University, 10
- Appeal Procedure, 13

Advanced Manufacturing, 188
Advanced Placement Program, 46
Advanced Professionalism, 133
Advertising, 79
Advisement, 17
Advising and Career Development Center, 17
Advising System, 17
Aerospace Studies, 218
African American Studies, 83
Aging Specialist, 229
Agricultural Education, 171
Agricultural Technology and Management, 174
Agriculture, Department of, 170
Air Force ROTC, 218
Allied Health, Department of, 223
Alumni Grant Scholarship, 27
American College Testing Program (ACT), 50
American Sign Language Studies, 232
Anthropology, 89, 90
Appeal Procedure (academic probation), 34
Appeal Procedure (admission), 13
Application for Graduation, 20, 39
Applied Data Analytics, 141
Applied Economics, Center for, 130
Applied Human Sciences, Department of, 224
Applied Music Instruction, 111
Applied Psychological Science, 207
Applied Statistics, 203
Arabic, 101, 105
Archaeology, 89
Architectural Science, 182
Art Education, 75
Art History, 76
Art, Department of, 73
Arts Administration, 129
Arts and Letters, College of, 73
Asian Religions and Cultures, 113
Asian Studies, 127
Associate Degrees, 58, 60, 71
Astronomy, 205
Athletic Coaching, 235
Attendance Notification, 31
Attendance Policy, 30
Auditing Courses, 20, 31
Automation, 192

B

Baccalaureate Degrees, 59, 61
Best Expectations Program (BEP), 17
Biblical Languages, 372
Biobehavioral Psychology, 207
Biochemistry, 177, 180, 216
Biology, Department of, 175
Biophysics, 206, 217
Board of Regents, 3
Bookstore (WKU Store), 393
Brewing and Distilling Sciences, 128, 146, 219
Broadcasting, 96, 99
Business (Associate Degree), 166
Business Administration, 142, 144
Business and Marketing Education, 155
Business Data Analytics, 141
Business Economics, 137
Business Finance, 138
Business Management, 166
Business, Gordon Ford College of, 130

C

Cambridge International Exams, 50
Campus Dining Services, 389
Canadian Studies, 128
Capitalism, Center for the Study of, 131
Career Center, 17
Carol Martin Gatton Academy, 358
Catalog Rights / Catalog Term, 37
Center for
- Applied Economics, 131
- Citizenship & Social Justice, 84
- Entrepreneurship and Innovation, 131
- Financial Success, 131
- Gerontology, 230
- Leadership Excellence, 131
- Professional Selling, 131
- Study of Capitalism, 131

Certificate Programs, 38
Change of Major, Minor, Concentration and/ or Faculty Advisor, 37
Changes in Offerings and Policies, 32
Cheating, 34, 373
Check Cashing Services, 384
Chemistry, Department of, 178
CHHS Center for Applied Science in Health and Aging, 222
CHHS Center for Environmental and Workplace Health, 221
Child Studies, 225, 227
Chinese, 102, 106
Chinese Flagship, 103
Citizenship and Social Justice, 84
Civil Engineering, 183
Class Attendance Policy, 30, 370
Classical Studies, 114
Classification of Students, 30
CLEP, 51
Climate Systems, 195
Clinical and Community Behavioral Health, 162
Clinical Education Complex (CEC), 365
Clinical Psychological Science, 207
CNSS 4011, 192
Cognitive Psychology, 207
College Heights Foundation Board of Directors, 3
College Heights Foundation Scholarships, 26
College Level Examination Program (CLEP), 51
College of Business Policies, 130
College Readiness, 14
Colonnade Requirements, 40
- Associate Degrees, 41
- Baccalaureate Degrees, 41

Commencement, 18

Committee on Credits and Graduation (Exceptions to Degree Requirements), 33, 40
Communication
Corporate and Organizational, 80
Department of, 77
Disorders, 231
Studies, 79, 81
Community Recreation, 235
Community, Environment, & Development, 119
Complaint Procedure, 36
Compliance, Statement of, 8
Comprehensive Certificates, 157
Computer
Animation, 76
Information Systems, 141
Information Technology, 184
Literacy, 167
Science, 185, 191
Concurrent and Subsequent Degrees, 38
Construction Management, 186, 191
Convention Planning, 226
Core Values, 5
Corporate & Organizational Communication, 80
Counseling and Student Affairs, Department of, 168
Counseling Center, 384
Course
Descriptions, 251
Fees, 20, 251
Load, 30
Numbering System, 251
Requirements, 38
Creative Writing, 86, 87
Credit (unit), 30
Credit by Exam, 46
Criminology, 119, 121
Culminating Assessment, 39
Curriculum Requirements, 37

D

Dance, 123, 124
Data Analysis using SAS, 203
Deaf Studies, 232
Degree
Certification and Commencement, 18
Conferral, 39
Requirements, 37
Degrees, Types of, 59
Dental Hygiene, 223
Department of Physical Therapy, 241
Departmental Credit by Examination, 55
Departments Requiring Additional Admission, 14
Dependents of War Veterans, 25
Developmental Course Grading, 15, 32
Developmental Science, 207
Dietetics, 226
Digital Advertising, 82
Dining Services, 389
Directing (Theatre), 123
Disability Services, 391
Dismissal, Academic (see Academic Probation), 34
Distance Learning, 362
Diversity and Community Studies, 82
Division of the School Year, 30
Double Majors, 38
Downing Student Union, 384
Dual Credit, 11, 362
Dual Degrees, 38
Dynamic Leadership Institute, 383

E

Early Childhood Education (2 yr), 229
Early Childhood Education (4 yr), 157
Earth Science, 196, 197
East European Studies, 127
Economics, Department of, 135
Education and Behavioral Sciences, College of, 149
Education, Teacher Certification, 151
Educational Administration, Leadership and Research, Department of, 168
Educational Opportunity Centers, 391
Educational Rights and Privacy Act, 7
Educational Talent Search, 392
Electrical Engineering, 186, 191
Elementary Education, 153
Employment, Student, 24
Engineering and Applied Sciences, School of, 181
English as a Second Language, 88
English as a Second Language (ESLI) University Language Center, 360
English Credit Proficiency, 50
English for Secondary Teachers, 87
English Proficiency Requirements, International Students, 12
English, Department of, 85
Enrolling at WKU, 10
Enrollment Verification, 18
Entrepreneurship, 143, 145
Entrepreneurship and Innovation, Center for, 131
Environment & Sustainability, 195, 198
Environmental Health, 245, 248
Environmental Health Science, 242
ESLI, 360
Exceptions to Degree Requirements, 40
Exchange Programs, 360
Exercise Science, 233
Expenses and Fees, 19
Exploratory Studies, 17
Extended Learning and Outreach (DELO), 361
Extended Living, 29

F

Facility and Event Management, 235
Faculty of the University, 3
Faculty-Led Study Abroad Programs, 360
Family and Consumer Sciences, 225, 227
Family Educational Rights and Privacy Act, (FERPA), 7
Family Home Visiting, 227, 229
Family Studies, 225, 228
Family, Gender, and Sexuality, 120
Fashion Merchandising, 227, 228
Fee Payment, 20
Fees, 19
Field Experience, Teacher Education, 152
Film, 97
Film Studies, 136
Finance, Department of, 138
Financial Assistance, 24
Financial Planning, 140
Fine Art, Bachelor of, 59, 74
Floodplain Management, 191
Floristry, 174
Folk Studies & Anthropology, Department of, 89
Folklore, 90
Food Processing and Technology, 192
Food Science, 177
Food Services (Dining Services), 389
Food, Nutrition and Wellness, 226
Foreign Language (see Modern Languages), 101
Forensic Psychology, 161
Forestry, Pre-Forestry Curriculum, 211
Formal Articulation Agreements, 57
French, 104, 106
Fulbright Faculty and Student Programs, 361

G

Gatton Academy, 358
Gender and Women's Studies, 85
General Agriculture Option, 173
General Psychology, 161, 207
Geographic Information Science, 198
Geographic Information Systems, 197
Geography, 195, 197
Geography and Environmental Studies, 195
Geography and Geology, Department of, 193
Geology, 196, 197
German, 104, 107

Gerontology, 228
Global Health Service, 246
Global Studies Designation, 31
GoArmyEd Program, 388
Gordon Ford College of Business, 130
Government (see Political Science), 117
Grade Point Average, 32
Grade Recording, 32
Grade Reports, 33
Grading and the Quality Point System, 32
Graduate Course Enrollment, 31
Graduate School, 364
Graduate School Admission, 14
Graduation Application, 20, 39
Graduation Fee, 20
Grants, 24
Graphic Design (B.F.A. Major), 74
Graphic Design for Advertising Majors, 77

H

Health and Human Services, College of, 220
Health Care Administration, 242, 246
Health Education, 246
Health Informatics, 248
Health Information Management, 243, 247
Health Sciences, 244
Health Services, 385
History, 91, 93
History of WKU, 4
Honors Program
  African American Studies, 84
  English, 88
  History, 94
  Political Science, 118
Honors Self-Designed Studies, 357
Hospitality Management and Dietetics, 226
Hotel Management, 226
Hotel, Restaurant and Tourism Management, 22
Housing and Residence Life, 27
Housing Cancelation and Refund Policy, 28
Housing Deposit, 28
Human Resources Management, 142

I

Identification Card, 385
iMedia Certificate, 100
Industrial Sciences, 191
Inequality and Social Change, 121
Information Systems, 167
Information Systems, Department of, 140
Information Technology, 365
Institute for Rural Health, 224
Interactive Training Design, 158
Interactive Video Service, 364
Intercollegiate Competition, 385
Intercultural Student Engagement Center, 384
Interdisciplinary Early Childhood Education, 157
Interdisciplinary Studies
  Associate of, 163
  Bachelor of, 166
Interior Design, 228
Interior Design and Fashion Merchandising, 227
International
  Admissions Office, 11
  Affairs, 116
  Baccalaureate, 53
  Business, 144, 145
  Enrollment Management, 11, 358
  Exchange, 361
  Programs, 359
  Student Office, 358
  Student Placement, Alternative, 13
  Transfer Credit, 57
Intramural-Recreational Sports, 386
Italian, 314
IVS Interactive Video Service, 364

J

Japanese, 314
Joint Admission/Enrollment, 13
Joint Undergraduate-Master's Degree Programs, 14
Journalism, 97
Journalism and Broadcasting, School of, 95
Journalism Writing, 99
JUMP, 14

K

Karst and Water Resources, 195
Kentucky
  Center for Education and Workforce Statistics, 8
  College Readiness Standards, 15
  Educational Excellence Scholarship (KEES), 25
  Educational Professional Standard Board, 151
  General Education Transfer Policy, 56
  Institute for International Studies (KIIS), 360
  Museum, 365
  Studies, 128
Kinesiology, Recreation, & Sport, School of, 232
Korean, 315

L

Land Surveying, 192
Late Registration Fee, 20
Latin American Studies, 126
Law, Pre-Law Curriculum, 94
Leadership and Governance, 3
Learning and Behavior Disorders, 157
Learning Center, 17
Lecture Series, 366
Legal Studies, 126
Libraries, 72
Literature, 86, 88
Loans, 24
Long-Term Care Administration, 248
Lost and Found, 388

M

Mahurin Honors College, 356
Management, Department of, 142
Manufacturing and Logistics, 193
Manufacturing Engineering Technology, 188
Manufacturing Processing and Technology, 193
Marketing, Department of, 146
Master's Degrees, 198
Mathematical Economics, 137, 202
Mathematics and Science Academy (Gatton), 358
Mathematics, Department of, 199
Mechanical Engineering, 189
Medical Laboratory Science, 177, 217
Medical Withdrawal, 35, 380
Medicine, Pre-Medicine Curriculum, 211
Meeting and Convention Planning, 228
Meteorology, 194
Middle East Studies, 129
Middle Grades Mathematics, 201
Middle Grades Science Certification, 170, 178
Middle Level Education, 154
Middle School Science, 170
Military Absence Policy, 31
Military
  Leadership, 160
  Science, 151
  Science and Leadership, Department of, 159
  Service Credit, 55
  Student Services, 388
  Withdrawal, 35
Minors, 58, 67
Mission of the University, 5
Modern Languages, Department of, 100
Molecular Biotechnology, 177
Motor Vehicle Registration Fee, 20
Museum, Kentucky, 365
Music (Liberal Arts), 109
Music Education, 108

Music Fees, 111
Music, Department of, 107
Musical Theatre, 123, 125

N

Name and Address Changes, 18
Neuroscience, 209
Non-Discrimination Statement, 7, 381
Nonprofit Administration, 234, 236
Notices, 7
Nursing, School of, 237
Nutrition, 228
Nutrition and Dietetics, 226
Nutritional and Food Chemistry, 181

O

Occupational Safety and Health, 246, 248
Offerings/Policies Changes, 32
Office Management, 166
Ogden College of Science and Engineering, 169
Ogden Foundation Scholar, 40
Ombuds Officer, Student, 391
On Demand, 362
Online Program Services, 362
Organizational Leadership, 164, 165, 167
Orientation (TOP), 16
Outdoor Experience Leadership, 236
Outdoor Recreation, 234

P

Paralegal Studies, 117
Parking and Transportation Services, 20
Patient Navigator, 222
Payment of Awards, 25
Payment Options, 21
Peer Mentoring Program, 168
Performance, Music, 108
Performing Arts, 123
Personal Financial Planning, 138
Pharmacy, Pre-Pharmacy Curriculum, 213
Philosophy, 113, 114
Philosophy and Religion, Department of, 112
Photojournalism, 98, 99
Physical Education, 232
Physical Therapy, Department of, 241
Physics and Astronomy, Department of, 203
Physics/ Applied Science/ Engineering, 204
Plagiarism, 34, 368
Police, WKU, 388
Political Communication, 82, 118
Political Science, Department of, 115
Popular Culture Studies, 80
Postal Services, 389
Potter College of Arts and Letters, 73
Pre-Chiropractic, 210
Pre-College Curriculum, 10
Pre-Dentistry, 210
Pre-Forestry, 211
Pre-Law, 94
Pre-Medicine, 211
Pre-Occupational, 212
Pre-Optometry, 212
Pre-Pharmacy, 213
Pre-Physical Therapy, 213
Pre-Physician Assistant, 214
Pre-Podiatric Medicine, 214
Pre-Professional Programs, 210
Pre-Theology, 115
Pre-Veterinary Medicine, 215
Prior Learning Credit, 56
Probation, Academic, 33
Professional Selling, Center for, 131
Professional Studies, School of, 163
Professional Writing, 86, 88
Program Expenses in College of Health and Human Services, 20
Programs of Study, 61
Psychological Sciences, Department of, 206
Psychology, Department of, 161
Public Health, Department of, 241
Public Relations, 81

Q

Quality Point System, Grading and the, 32
Quantitative Psychology, 207

R

Readiness, College, 14
Readmission of Students, 11
Real Estate, 168
Records, Student Academic, 18
Recreation Administration, 234
Refund Policy, 23
Regents, Board of, 3
Regional Campuses, 363
Registrar, Office of the, 18
Registration and Student Academic Records, 18
Registration and Student Schedule Changes, 30, 32
Regulations, Academic, 30
Religious Studies, 113, 114
Renewal Procedures, 25
Repeating Courses, 33
Requirements, Academic, 30
Research Methods (Sociology), 119
Residence Credit for Graduation, 38
Residence Halls, 28
Residence Requirements, 38
Residency Determinations, 13
Restaurant Group, 389
Retroactive Withdrawal, 35
ROTC Scholarships, 26
ROTC, Army and Air Force, 364
Russian, 343
Russian and East European Studies, 127
Sales, 147, 148

S

SAT, 50
Schedule Change Fee, 20
Schedule Changes, 30
Scholar Development, Office Of, 356
Scholar of the College, 40
Scholarships, 26
School of Professional Studies, 163
School of Teacher Education, 153
Science and Engineering, College of, 169
Science and Mathematics Education, 156
Senior Citizen Scholarships, 27
Senior Citizens, Admission of, 11
Senior Exam (see Culminating Assessment), 39
Sexuality Studies, 121
Six Sigma and Quality, 193
SKyTeach, 170
SMED, 156
Social Media Marketing, 147
Social Psychology, 207
Social Studies, 93
Social Work, Department of, 249
Sociology, 119, 121
Sociology, Department of, 119
South-Central Kentucky Area Health Education Center, 221
Southern Studies, 93
Spanish, 105, 107
Special Education, 157
Special Programs and Divisions, 356
Sport Management, 234
Sport Psychology, 161
Statement of Compliance, 8
Statement of Purpose, 5
Strategic Marketing, 147

Student
Academic Records, 18
Accessibility Resource Center, 391
Activities, 383
Catalog Rights, 37
Complaint Procedure, 36
Conduct Policies, 367
Course Load, 30
Disability Services, 391
Employment, 24
Financial Assistance, 24
Ombuds Officer, 391
Organizations, 384
Records, 18
Rights and Responsibilities, 367
Right-to-Know Act Annual Disclosure, 8
Services and Activities, 383
Support Services, 392
Union, 390
Studio Art, 75, 77
Study Abroad and Global Learning, 359
Study Abroad Credit, 58
Study Away, 58
Subsequent Degrees, 38
Suzanne Vitale Clinical Education Complex, 365
Swahli, 349
Systems / Scientific Applications, 185
Systems Engineering, 192

T

Talent Search 392
Teacher Education
Admission, 150
Programs, 151
School of, 153
Teaching English as a Second Language, 88
Technology Management, 190
Telecourses (IVS), 364
Testing Centers, 362
Theatre, 122
Theatre and Dance, Department of, 122
Theatre Design and Technology, 123
Theology, Pre-Theology Curriculum, 115
Title IX Compliance, 9, 381
TOP, 16
Topper Orientation Program, 16
Tourism, 229, 236
Tourism and Development, 195
Transcript Fee, 20
Transcripts, 33
Transcripts, International Students, 12
Transfer
Academic Plans, 57
Center, 18
Credits, 56
Policies, 56
Scholarships, 26
Student Services, 57
TRIO Programs, 391
Tuition, 19
Tuition and Fee Refund Policy, 23
Tuition and Fees, 19
Tuition Incentive Program, 27
Tuition Incentive Program Scholarship, 27
Turf and Golf Course Management, 171, 174

U

Unit of Credit, 30
University
Experience, 168
Lecture Series, 366
Libraries, 72
Notices, 7
University, The, 4
Upward Bound, 393
User Experience, 82

V

Vehicle Registration, 20
Veterans Educational Benefits, 25
Veterans Upward Bound, 393
Veterinary, Pre-Veterinary Curriculum, 215
Visiting Students, 11
Visual Arts, 74
Visual Studies, 75
Vocational Rehabilitation, 25

W

Water Resources, 197
Winter and Summer Financial Aid, 25
Winter Term and Summer Sessions, 363
Withdrawal from the University 35
WKU
CPR Training Center, 222
Debit Card, 25
Police Department, 388
President's Cabinet, 3
Restaurant Group, 389
Store, 393
Women's Studies, Gender and, 85
Workforce Administration, 164
Worksite Health Promotion, 247, 249
World Language Proficiency, 45, 101