# **Undergraduate Curriculum Committee**

Western Kentucky University

Report to the University Senate

Date: March 27, 2014. From: Ashley Fox, Chair

The Undergraduate Curriculum Committee submits the following items from the 27 March 2014, meeting for approval by the University Senate:

## Information Item Report:

I. Delete a Course

DH 211

II. Revise Course Number

DH 111

DH 112

DH 122

DH 130

DH 121

DH 321

III. Change Course Prerequisites/Corequisities

HIM 495

**REC 496** 

IV. Revise Course Prerequisites

**GEOG 316** 

**GEOG 418** 

V. Revise Course Catalog Listing

**GEOG 317** 

**GEOG 417** 

SOCL 300

## Consent Item Report:

I. New Course

ID 460

ID 465

ID 470

ID 475

#### New Certificate Program II. Interactive Training Design

#### III. Create a New Course

DH 370

AMS 120-M1

AMS 120-M2

AMS 120-M3

AMS 205-M1

AMS 205-M2

AMS 205-M3

AMS 217-M1

AMS 217-M2

AMS 217-M3

AMS 227-M1

AMS 227-M2

AMS 227-M3

AMS 310-M1

AMS 310-M2

AMS 310-M3

AMS 328-M1

AMS 328-M2

AMS 328-M3

AMS 342-M1

AMS 342-M2

AMS 342-M3

AMS 343-M1

AMS 343-M2

AMS 343-M3

AMS 352-M1

AMS 352-M2

AMS 352-M3

AMS 356-M1

AMS 356-M2

AMS 356-M3

AMS 370-M1

AMS 370-M2

AMS 370-M3

AMS 371-M1

AMS 371-M2

AMS 371-M3

AMS 390-M1

AMS 390-M2

AMS 390-M3

AMS 394-M1

AMS 394-M2

AMS 394-M3

AMS 396-M1

AMS 396-M2

AMS 396-M3

AMS 430-M1

AMS 430-M2

AIVIS 450-IVI2

AMS 430-M3

AMS 490-M1

AMS 490-M2

AMS 490-M3

**MLNG** 100

ARBC 306

**ARBC 389** 

**ARBC** 499

**CRIM 489** 

## IV. Revise a Program

226 Dental Hygiene

249 Associate Degree in Early Childhood Education

422 Nonprofit Administration

521 Public Health

524 Dental Hygiene

586 Baccalaureate of Science in Nursing

596 Bachelor of Science – RN to BSN

518 Major in Architectural Sciences

506 Major in Advanced Manufacturing

335 Minor in Chemistry

317 Minor in Asian Studies

615 Major in Asian Religions and Cultures

758 Popular Culture Studies

## V. Revise a Program Item

Honor College

## VI. Create a New Certificate Program

**Automation Certificate** 

Manufacturing and Logistics Certificate

Manufacturing Processing and Technology Certificate

Six Sigma and Quality Certificate

## VII. Make Multiple Revisions to a Course

**GEOG 419** 

**GEOG 423** 

GEOG 443 GEOG 477 GEOG 485 GEOG 492 ARC 499

VIII. Revise Course Credit Hours DANC 314

Proposal Date: 2/17/14

# College of Health and Human Services Allied Health Proposal to Delete a Course (Consent Item)

Contact Person: Lynn Austin, <a href="mailto:lynn.austin@wku.edu">lynn.austin@wku.edu</a>, 5-3827

- 1. Identification of course:
  - 1.1 Current course prefix and number: DH 211
  - 1.2 Course title: Clinical Dental Hygiene II
- **2. Rationale for the course deletion:** A new course (DH 370) was developed to be more closely aligned with current Commission on Dental Accreditation standards. The new course more appropriately measures expected competencies to be attained. With the development of DH 370, this course is no longer going to be offered.
- 3. Effect of course deletion on programs or other departments, if known: None
- 4. **Proposed term for implementation:** Fall 2014
- 5. Dates of prior committee approvals:

Allied Health Curriculum Committee	2-19-14	
CHHS Undergraduate Curriculum Committee	3/7/2014	
Undergraduate Curriculum Committee	03/27/2014	
University Senate		

Proposal Date: 02/17/14

## College of Health and Human Services Department of Allied Health Proposal to Revise Course Number (Consent Item)

Contact Person: Becky Tabor; becky.tabor@wku.edu; 270.745.3814

## 1. Identification of proposed course

1.1 Course prefix and number: DH 1111.2 Course title: Pre-Clinical Dental Hygiene

2. Proposed course number: DH 270

#### 3. Rationale for revision of course number:

None of WKU's Benchmark institutions offer a Program of Dental Hygiene. Only one other school in Kentucky offers a BS in Dental Hygiene (University of Louisville). The corollary course for DH 111 Pre-Clinical Dental Hygiene at UL is Dental Hygiene Theory I DHED 301. There are 2 BS in Dental Hygiene programs in Tennessee. The corollary course for DH 111 Pre-Clinical Dental Hygiene at the University of Tennessee is DH 410 Clinic Theory I. The corollary course for DH 111 Pre-Clinical Dental Hygiene at East Tennessee State University is DHYG 2030 Pre-Clinical Dental Hygiene. There are 3 BS in Dental Hygiene programs in Indiana. The corollary course for DH 111 Pre-Clinical Dental Hygiene at Indiana University Northwest is DHYG-H 218 Fundamentals of Dental Hygiene. The corollary course for DH 111 Pre-Clinical Dental Hygiene at University of Southern Indiana is DTHY 342 Dental Hygiene Clinic I. The corollary course for DH 111 Pre-Clinical Dental Hygiene at Indiana University is H218 Fundamentals of Dental Hygiene. Changing the course number from DH 111 to DH 270 will better align the course with those taught at other BS programs in neighboring states and across the country. In addition, adequately meeting current course objectives regarding essentials of patient treatment including infection control and medical emergency preparation requires the course to be taught at a higher level than is typical for a 100 level class. Revising the course number to a 200 level will better reflect the difficulty of the course and thus more appropriately set student expectations. Additionally, all students who would enroll in this course would have a minimum of sophomore standing. No changes to course objectives are necessary to justify the change.

#### 4. Proposed term for implementation: Fall 2014

#### 5. Dates of prior committee approvals:

Allied Health Curriculum Committee	2/19/14	
CHHS Undergraduate Curriculum Committee	3/7/2014	
Undergraduate Curriculum Committee	03/27/2014	
University Senate		

Proposal Date: 02/18/14

## College of Health and Human Services Department of Allied Health Proposal to Revise Course Number (Consent Item)

Contact Person: Joseph Evans, joseph.evans@wku.edu, 745-6274

1. Identification of proposed course

1.1 Course prefix and number: DH 112

1.2 Course title: Oral Anatomy

2. Proposed course number: DH 212

- 3. Rationale for revision of course number: None of WKU's Benchmark institutions offer a Program of Dental Hygiene. Only one other school in Kentucky offers a BS in Dental Hygiene (University of Louisville). The corollary course for DH 112 Oral Anatomy at U of L is DHED 303 Dental Anatomy. There are 2 BS in Dental Hygiene programs in Tennessee. The corollary course for DH 112 Oral Anatomy at the University of Tennessee is DH 413 Dental Embryology, Histology, and Anatomy. The corollary course for DH 112 Oral Anatomy at East Tennessee State University is DHYG 2020 Dental Anatomy and Histology. There are 3 BS in Dental Hygiene programs in Indiana. The corollary course for DH 112 Oral Anatomy at Indiana University Northwest is H214 Oral Anatomy. The corollary course for DH 112 Oral Anatomy at University of Southern Indiana is DTHY 314 Oral Anatomy. The corollary course for DH 112 Oral Anatomy at Indiana University is H214 Oral Anatomy. Changing the course number from DH 112 to DH 212 will better align the course with those taught at other BS programs in neighboring states and across the country. In addition, adequately meeting current course objectives regarding the development, eruption, function, and basic morphological characteristics of the permanent/deciduous human dentition as well as the surface anatomy and underlying anatomical structures of oral cavity including the head and neck requires the course to be taught at a higher level than is typical for a 100 level class. Revising the course number to a 200 level will better reflect the difficulty of the course and thus more appropriately set student expectations. Additionally, all students who would enroll in this course would have a minimum of sophomore standing. No changes to course objectives are necessary to justify the change.
- 4. Proposed term for implementation: Fall 2014
- 5. Dates of prior committee approvals:

Allied Health	2-17-14
CHHS Undergraduate Curriculum Committee	3/7/2014
Undergraduate Curriculum Committee	03/27/2014
University Senate	

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Proposal Date: 02/17/14

## College of Health and Human Services Department of Allied Health Proposal to Revise Course Number (Consent Item)

Contact Person: Becky Tabor; becky.tabor@wku.edu; 270.745.3814

## 1. Identification of proposed course

1.1 Course prefix and number: DH 122

1.2 Course title: Preventive Dental Hygiene Care

2. Proposed course number: DH 222

#### 3. Rationale for revision of course number:

None of WKU's Benchmark institutions offer a Program of Dental Hygiene. Only one other school in Kentucky offers a BS in Dental Hygiene (University of Louisville). The corollary course for DH 122 Preventive Dental Hygiene Care at UL is Oral Health Education DHED 312. There are 2 BS in Dental Hygiene programs in Tennessee. The corollary course for DH 122 Preventive Dental Hygiene Care at the University of Tennessee is DH 425 Oral Disease Prevention and Patient Education. The corollary course for DH 122 Preventive Dental Hygiene Care at East Tennessee State University is DHYG 4010 Teaching Strategies for Allied Health. There are 3 BS in Dental Hygiene programs in Indiana. The corollary course for DH 122 Preventive Dental Hygiene Care at Indiana University Northwest is DHYG-H 217 Preventive Dentistry. The corollary course for DH 122 Preventive Dental Hygiene Care at University of Southern Indiana is DTHY 316 Preventive Oral Health I. The corollary course for DH 111 Pre-Clinical Dental Hygiene at Indiana University is H217 Preventive Dentistry. Changing the course number from DH 122 to DH 222 will better align the course with those taught at other BS programs in neighboring states and across the country. In addition, adequately meeting current course objectives regarding current preventive strategies and educational methods requires the course to be taught at a higher level than is typical for a 100 level class. Revising the course number to a 200 level will better reflect the difficulty of the course and thus more appropriately set student expectations. Additionally, all students who would enroll in this course would have a minimum of sophomore standing. No changes to course objectives are necessary to justify the change.

#### 1. Proposed term for implementation: Fall 2014

## 2. Dates of prior committee approvals:

Allied Health	2/19/14
CHHS Curriculum Committee	3/7/2014
Undergraduate Curriculum Committee	03/27/2014
University Senate	

2/10/14

Proposal Date: 2/18/14

# College of Health and Human Services Department of Allied Health Proposal to Revise Course Number (Consent Item)

Contact Person: Joseph Evans, joseph.evans@wku.edu, 745-6274

1. Identification of proposed course

1.1 Course prefix and number: DH 130

1.2 Course title: Oral Histology and Embryology

2. Proposed course number: DH 230

- 3. Rationale for revision of course number: None of WKU's Benchmark institutions offer a Program of Dental Hygiene. Only one other school in Kentucky offers a BS in Dental Hygiene (University of Louisville). The corollary course for DH 130 Oral Histology and Embryology at U of L is DHED 305 Biology of Head and Neck. There are 2 BS in Dental Hygiene programs in Tennessee. The corollary course for DH 130 Oral Histology and Embryology at the University of Tennessee is DH 413 Dental Embryology, Histology, and Anatomy. The corollary course for DH 130 Oral Histology and Embryology at East Tennessee State University is DHYG 2020 Dental Anatomy and Histology. There are 3 BS in Dental Hygiene programs in Indiana. The corollary course for DH 130 Oral Histology and Embryology at Indiana University Northwest is H224 Oral Histology and Embryology. The corollary course for DH 130 Oral Histology and Embryology at University of Southern Indiana is DTHY 315 Oral Embryology and Histology. The corollary course for DH 130 Oral Histology and Embryology at Indiana University is H211 Head and Neck Anatomy. Changing the course number from DH 130 to DH 230 will better align the course with those taught at other BS programs in neighboring states and across the country. In addition, adequately meeting current course objectives regarding the growth and development of the face and oral cavity, the microscopic study of the tissues of the teeth and their supporting structures, and the study of the growth and development of the human embryo requires the course to be taught at a higher level than is typical for a 100 level class. Revising the course number to a 200 level will better reflect the difficulty of the course and thus more appropriately set student expectations. Additionally, all students who would enroll in this course would have a minimum of sophomore standing. No changes to course objectives are necessary to justify the change.
- 4. Proposed term for implementation: Spring 2015
- 5. Dates of prior committee approvals:

Allied Health	2 17 14	
CHHS Curriculum Committee	3/7/2014	
Undergraduate Curriculum Committee	03/27/2014	
University Senate		

2 10 14

Proposal Date: 02/17/14

## College of Health and Human Services Department of Allied Health Proposal to Revise Course Number (Consent Item)

Contact Person: Becky Tabor; becky.tabor@wku.edu; 270.745.3814

## 1. Identification of proposed course

1.1 Course prefix and number: DH 1211.2 Course title: Clinical Dental Hygiene I

2. Proposed course number: DH 271

#### 3. Rationale for revision of course number:

None of WKU's Benchmark institutions offer a Program of Dental Hygiene. Only one other school in Kentucky offers a BS in Dental Hygiene (University of Louisville). The corollary course for DH 121 Clinical Dental Hygiene at UL is Dental Hygiene Theory II DHED 313. There are 2 BS in Dental Hygiene programs in Tennessee. The corollary course for DH 121 Clinical Dental Hygiene at the University of Tennessee is DH 426 Clinic Theory II. The corollary course for DH 121 Clinical Dental Hygiene at East Tennessee State University is DHYG 2131 Dental Hygiene Clinical Practice I. There are 3 BS in Dental Hygiene programs in Indiana. The corollary course for DH 121 Clinical Dental Hygiene at Indiana University Northwest is DHYG-H 219 Clinical Practice I. The corollary course for DH 121 Clinical Dental Hygiene at University of Southern Indiana is DTHY 352 Dental Hygiene Clinic II. The corollary course for DH 121 Clinical Dental Hygiene at Indiana University is H219 Clinical Practice I. Changing the course number from DH 121 to DH 271 will better align the course with those taught at other BS programs in neighboring states and across the country. In addition, adequately meeting current course objectives regarding education and provision of dental treatment to live patients requires the course to be taught at a higher level than is typical for a 100 level class. Revising the course number to a 200 level will better reflect the difficulty of the course and thus more appropriately set student expectations. Additionally, all students who would enroll in this course would have a minimum of sophomore standing. No changes to course objectives are necessary to justify the change.

#### 4. Proposed term for implementation: Fall 2014

## 5. Dates of prior committee approvals:

Allied Health Department	2/19/14	
CHHS Undergraduate Curriculum Committee	3/7/2014	
Ç	03/27/2014	
Undergraduate Curriculum Committee		
University Senate		

Proposal Date: 02/17/14

## College of Health and Human Services Department of Allied Health Proposal to Revise Course Number Consent Item

Contact Person: Barbara Bush; barbara.bush@wku.edu; 270.745.3825

## 1. Identification of proposed course

1.1 Course prefix and number: DH 3211.2 Course title: Clinical Dental Hygiene III

2. Proposed course number: DH 371

#### 3. Rationale for revision of course number:

As the Program of Dental Hygiene has begun to renumber the clinical courses, the sequence will align as such: DH 270 Pre-Clinical Dental Hygiene, DH 271 Clinical Dental Hygiene I, DH 370 Clinical Dental Hygiene II, and DH 371 Clinical Dental Hygiene III. Changing DH 321 to DH 371 sequences the clinical course numbers more appropriately.

## 4. Proposed term for implementation: Fall 2014

## 5. Dates of prior committee approvals:

Allied Health Department	2/19/14
CHHS Undergraduate Curriculum Committee	3/7/2014
Undergraduate Curriculum Committee	03/27/2014
University Senate	

Proposal Date: 2/10/2014

# College of Health and Human Services Department of Allied Health Proposal to Revise Course Prerequisites (Consent Item)

Contact Person: Karen Sansom, karen.sansom@wku.edu, 270-780-2567

- 1. Identification of course:
  - 1.1 Course prefix and number: HIM 495
  - 1.2 Course title: Capstone Professional Practice Experience
- **2. Current prerequisites:** HIM 252, 350, CIS 320, CIT 310, 332, 350, 370, 492, HCA 432, 401 or 445, PH 383.
- 3. Proposed prerequisites: HIM 252, 350, CIT 310, 332, 350, 492, HCA 342, 401 or 445, PH 383
- **4. Rationale for the revision of prerequisites:** Deletion of CIS 320 and CIT 370 from the program curriculum was approved at the December 11, 2012, UCC meeting and at the January 14, 2013, Senate Executive Committee meeting. While the catalog was amended to reflect the curriculum revision, these courses were not deleted as prerequisites for HIM 495. In addition, the prerequisite course HCA 342 Human Resources Management for Healthcare Managers was entered in the catalog as HCA 432 due to an error in transposition of the course number.
- 5. Effect on completion of major/minor sequence: Not Applicable
- **6. Proposed term for implementation:** Spring 2015
- 7. Dates of prior committee approvals:

Program of Health Information Management	February 10, 2014
Department of Allied Health	February 11, 2014
CHHS Undergraduate Curriculum Committee	3/7/2014
Undergraduate Curriculum Committee	03/27/2014
University Senate	

Proposal Date: January 30, 2014

# **College Name**

# **Department Name**

# **Proposal to Revise Course Prerequisites/Corequisites**

(Consent Item)

Contact	t Person	: Tricia Jordan, tricia.jordan@wku.edu, 270-745-6042		
1.	Identification of course:			
	1.1 1.2	Course prefix (subject area) and number: REC 496 Course title: Nonprofit Internship		
<b>2.</b> permiss		t prerequisites/corequisites/special requirements: R	EC 220, MGT 333 & Instructor's	
<b>3.</b> permiss	-	ed prerequisites/corequisites/special requirements:  n the instructor	12 hours of minor coursework or	
	lf of the	ale for the revision of prerequisites/corequisites/speciminor courses demonstrates student commitment to and foundation for students to enter their internship ex	completion of the minor while	
5.	Effect on completion of major/minor sequence: Not Applicable			
6.	Proposed term for implementation: Spring 2015			
7.	Dates of prior committee approvals:			
	Depart	ment/ UnitKRS	2/10/2014	
	_Health	n & Human Services College Curriculum Committee	3/7/2014	
	Profess	ional Education Council (if applicable)		
	Genera	l Education Committee (if applicable)		
	Underg	graduate Curriculum Committee	03/27/2014	

**University Senate** 

Proposal Date: 12/13/2013

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Revise Course Prerequisites (Consent Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

- 1. Identification of course:
  - 1.1 Course prefix (subject area) and number: GEOG 316
  - 1.2 Course title: Fundamentals of Geographic Information Systems
- **2. Current prerequisites:** GEOG 100 or GEOL 111, and GEOG 110, or permission of the instructor
- **3. Proposed prerequisites:** GEOG 103 or GEOL 103, GEOG 110; or permission of the instructor.
- **4. Rationale for the revision of prerequisites:** GEOG 100 has been deleted and replaced by GEOG/GEOL 103. With most of the material taught in GEOL 111 covered in GEOG/L 103, GEOL 111 is no longer needed as a prerequisite.
- **5. Effect on completion of major/minor sequence:** None
- **6. Proposed term for implementation:** Spring 2015
- 7. Dates of prior committee approvals:

Department of Geography and Geology	12/13/2013
OCSE Curriculum Committee	<u>3/6/2014</u>
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

Proposal Date:12/13/2013

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Revise Course Prerequisites (Consent Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

- 1. Identification of course:
  - 1.1 Course prefix (subject area) and number: Geog 418
  - 1.2 Course title: Internet Geographic Information Systems
- **2. Current prerequisites:** CS 146 and GEOG 417; or permission of instructor.
- **3. Proposed prerequisites:** CS 170, and GEOG 417 with a grade of C or better; or permission of instructor.
- **4. Rationale for the revision of prerequisites:** CS 170 covers computer programming with Python and it is a more appropriate course than CS 146. A grade of C or better in GEOG 417 is required to cope with the material covered in GEOG 418.
- 5. Effect on completion of major/minor sequence: None
- **6. Proposed term for implementation:** Spring 2015
- 7. Dates of prior committee approvals:

Department of Geography and Geology	<u>12/13/2013</u>
OCSE Curriculum Committee	<u>3/6/2014</u>
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: 12/13/2013

## Ogden College of Science and Engineering Department of Geography and Geology Proposal to Revise Course Catalog Listing (Consent Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

- 6. Identification of course:
  - 1.1 Course prefix (subject area) and number: GEOG 317
  - 1.2 Course title: Geographic Information Systems
- **7. Current course catalog listing:** Basic concepts of spatial science; introduction to data management, display, and analysis using geographic information systems. Course Fee.
- **8. Proposed course catalog listing:** The principles, concepts, and applications of GIS. Topics include raster and vector data models, GIS data sources, data acquisition, storage, management, structured query language, relational databases, GIS analysis, and display.
- **9.** Rationale for revision of the course catalog listing: We have modified the course description to better reflect the course content. GIS is always evolving and the course content is a reflection of this technology changing.
- **10. Proposed term for implementation:** Spring 2015
- 11. Dates of prior committee approvals:

Department of Geography and Geology	12/13/2013
OCSE Curriculum Committee	<u>3/6/2014</u>
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: 12/13/2013

## Ogden College of Science and Engineering Department of Geography and Geology Proposal to Revise Course Catalog Listing (Consent Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

- 12. Identification of course:
  - 1.1 Course prefix (subject area) and number: GEOG 417
  - 1.2 Course title: GIS Analysis and Modeling
- **13.** Current course catalog listing: Develops expertise with a broad range of spatial analysis functions applied within a cartographic modeling framework. Course Fee.
- **14. Proposed course catalog listing:** Develops expertise with a broad range of spatial analysis and modeling functions using GIS. A problem-oriented approach.
- **15. Rationale for revision of the course catalog listing:** We have modified the course description to better reflect the course content. GIS is always evolving and the course content is a reflection of this technology changing.
- **16. Proposed term for implementation:** Spring 2015
- 17. Dates of prior committee approvals:

Department of Geography and Geology	<u>12/13/2013</u>	
OCSE Curriculum Committee	<u>3/6/2014</u>	
	03/27/2014	
Undergraduate Curriculum Committee	9	
University Senate		

Proposal Date: January 29, 2014

# Potter College of Arts & Letters Department of Sociology Proposal to Revise Course Prerequisites (Consent Item)

Contact Person: Carrie Trojan, carrie.trojan@wku.edu, 270-745-2645

- 1. Identification of course:
  - 1.1 Course prefix (subject area) and number: SOCL 300
  - 1.2 Course title: Using Statistics in Sociology
- **2. Current prerequisites:** MATH 109 or 116 or equivalent.
- **3. Proposed prerequisites:** MATH 109 or MATH 116 or MATH 183 or equivalent.
- **4. Rationale for the revision of prerequisites:** Based upon the existing course description for MATH 183, Introductory Statistics, this course will adequately prepare our majors for SOCL 300 to the same degree as existing prerequisites.
- **5. Effect on completion of major/minor sequence:** The inclusion of an additional prerequisite will not adversely affect the completion of the sociology major.
- **6. Proposed term for implementation:** Spring 2015
- 7. Dates of prior committee approvals:

Department of Sociology	January 29, 2014		
Potter College Curriculum Committee	March 6, 2014		
Professional Education Council (if applicable)	<u>N/A</u>		
General Education Committee (if applicable)	<u>N/A</u>		
Undergraduate Curriculum Committee University Senate	03/27/2014		

Proposal date: 12/02/2013

# College of Education and Behavioral Sciences Department of School of Teacher Education Proposal to Create a New Course (Action Item)

Contact Person: Xiaoxia "Silvie" Huang, xiaoxia.huang@wku.edu, 270-745-4322

## 1. Identification of proposed course:

1.1 Prefix and number: ID 460

**1.2 Title**: Introduction to Instructional Design

**1.3 Abbreviated title:** Introduction to ID

1.4 Credit hours and contact hours: 3/3

**1.5 Type of course:** (L)-Lecture

**1.6** Prerequisites/corequisites: none

**1.7 Course catalog listing:** 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.

#### 2. Rationale:

## 2.1 Reason for developing the proposed course:

In support of the WKU mission of valuing lifelong learning and providing opportunities for students to be productive and engaged leaders in a global society, and to support the initiation of the Council on Postsecondary Education to develop a college educated and highly skilled work force by 2020, the proposed course will be an essential part of the requirements of the proposed undergraduate Interactive Training Design certificate program. This survey course will introduce undergraduate students to the systematic approach to instructional design, the contexts of application of this approach and the roles of professionals in this field to be able to adapt and apply the process in a flexible and innovative manner. This course will help students become conversant in the ID models and process, and their applications in a variety of settings. Based on curricular outlines provided by the Association for Educational Communications and Technology, the foundation for developing an Instructional Design curriculum is built on research in the areas of the analysis of learning and performance problems, and the design, development, implementation, evaluation, and management of instructional and non-instructional processes and resources intended to improve learning and performance. This course provides an overview of many components of the instructional design process included in the curricular area of Instructional Design.

#### 2.2 Proposed enrollment for the proposed course:

Estimated initial enrollment in the course is 8 to 11 students with a subsequent increase to 12-20 students per offering. The projection for enrollment is based on the national

trend for growth in the field of instructional design, the projected growth of online enrollments in graduate program, and current overall enrollment in the Instructional Design master's program. The enrollment should grow after the undergraduate certificate program is promoted and knowledge of its existence is well established. Some students in the undergraduate programs at WKU may use the proposed course as a content elective.

## 2.3 Relationship of the proposed course to courses now offered by the department:

The proposed ID 460 Introduction to Instructional Design course includes some topics covered in LME 445 Introduction to Educational Technology and LME 448 Technology Applications in Education in the Library Media Education program. LME 445 includes principles of ID with emphasis on the integration of educational technology into a classroom setting. LME 448 includes lesson planning with the incorporation of application software in teaching and learning settings. While LME 445 and 448 include some Instructional Design principles, they focus more on the improvement of pupil learning through traditional unit and lesson planning for the classroom. The orientation of the proposed ID 460 is to adapt and apply the Instructional Design process in a flexible and innovative manner in a variety of workplace settings, such as business and industry, government, military, and higher educational institutions.

# 2.4 Relationship of the proposed course to courses offered in other departments:

The Department of Management offers MGT473 Training in Business and Industry that focuses on an "introduction to theories, research and methods of training needs analysis, program design, implementation, and evaluation". However, ID 460 is different than MGT 473 because the former focuses on a systematic approach to ID and provides a broader conceptual framework of the instructional design field where students will adapt and apply the Instructional Design process in a flexible and innovative manner in a variety of workplace settings, such as business and industry, government, military, and higher educational institutions.

## 2.5 Relationship of the proposed course to courses offered at other institutions:

Only a few benchmark universities offer an undergraduate level course that is similar to ID 460. James Madison University offers LTLE 385 Foundations of Instructional Design focusing on application of instructional theory to the creation of education programs and materials. Bowling Green State University offers TECH 4330 Instructional Design and Delivery that focuses on "learning styles, reading levels, philosophies of learning and education, instructional delivery methods, instructional techniques and evaluation instruments." The proposed ID 460 is similar to these courses but goes beyond their scope with the emphasis on a systematic approach to instructional design and the application in context and roles of professionals.

#### 3. Discussion of proposed course:

#### 3.1 Course Objectives:

Upon accomplishment of this course, students will be able to:

- Compare and contrast Instructional Systems Design (ISD) models in terms of their appropriateness for a given set of education or training development requirements.
- Classify instructional goals according to characteristics of performance and task domains.
- Identify the steps required to accomplish an instructional goal and correlated performance objectives.
- Identify subordinate skills including hierarchical, procedural, cluster, and integrated techniques.
- Determine entry behaviors and knowledge requisite to accomplishment of an instructional goal and correlated performance objectives.
- Ascertain multicultural factors that influence accomplishment of a goal and objectives.
- Produce an ISD process that is tailored to the education and training requirements of a specific organization.

#### 3.2 Content outline:

- Foundations of Instructional Systems Design
- General Systems Theory and its relationship to ISD
- Exploration of ISD Models
- Performance Improvement Models and Processes
- ADDIE (Analysis, Design, Development, Implementation, and Evaluation) Model
  - o Conducting a Needs Assessment
  - o Analyzing Learners and Settings
  - o Conducting a Work Analysis
  - o High Level Design
  - o Design & Development of Instruction
  - o Evaluation and Quality Management of Instruction
- 3.3 Student expectations and requirements: Student expectations and course requirements may include such activities and projects as analyzing the system structure of an organization, preparing a plan for a needs assessment in an organization, or reporting the results of a job/task analysis for all or part of a job. Preparing an instructional system or (Human Performance Technology) HPT process model that is tailored to the requirements of a specific organization will be the culminating project required of each student in the course. All assignments will be evaluated and will contribute to the final grade in the course. Assessments will primarily be performance-based, allowing for the demonstration of the skills of focus within the course.

#### 3.4. Tentative texts and course materials:

Ertmer, P. A., Quinn, J., & Glazewski, K.D., (2014). *The ID casebook: Case studies in instructional design*, 4<sup>th</sup> ed. Upper Saddle River, NJ: Pearson. ISBN 978-0133258257

	4.1	Library resources: Library resources are	e adequate for the course.	
	4.2	Computer resources: No special equipm	nent is needed.	
5.	Budg	get Implications:		
	<b>5.1 Proposed method of staffing:</b> One of the two full-time Instructional Design facult members will teach this course. Two other qualified part-time instructors have been identified who could also teach the course if needed.			
	5.2 Special equipment needed: No special equipment is needed			
	5.3 Expendable materials needed: None			
	5.4	Laboratory supplies needed: None		
6.	Prop	osed term for implementation:		
	Fall	2014		
7.	Date	s of prior committee approvals:		
	School of Teacher Education		_02/14/2014_	
	CEBS	S Curriculum Committee	3/6/14	
	Unde	ergraduate Curriculum Committee	_03/27/2014	
	Unive	ersity Senate		

4. Resources:

Proposal Date: 12/05/2013

# College of Education and Behavioral Sciences Department of School of Teacher Education Proposal to Create a New Course (Action Item)

Contact Person: Elena Novak, elena.novak@wku.edu, 745-4135

#### 1. Identification of course:

1.1 Prefix and number: ID 465

**1.2 Title:** Analysis and Design of Training **1.3 Abbreviated title:** Analysis and Design **1.4 Credit hours and contact hours:** 3/3

**1.5 Type of course:** (L)-Lecture

**1.6 Prerequisites:** junior standing or instructor approval; AND prerequisites/

corequisites: ID 460

**1.7 Course catalog listing:** Foundational information and activities to develop the skills necessary to analyze learners, learning context and skills, and design learning activities.

#### 2. Rationale:

## 2.1 Reason for developing the proposed course:

In support of the WKU mission of valuing lifelong learning and providing opportunities for students to be productive and engaged leaders in a global society, the proposed course will introduce undergraduate students to instructional design principles required for developing effective instructional materials that can be used in a variety of educational and training settings. The proposed course also supports the initiative of the Council on Postsecondary Education to develop a college educated and highly skilled work force by 2020. The proposed course is necessary because it is a foundational course in the proposed Interactive Training Design certificate. Based on curricular outlines provided by the Association for Educational Communications and Technology, the foundation for developing an Instructional Design curriculum is built on research in the areas of analysis and design of training materials to address real world training issues. This course provides that foundation by orienting student to the field, introduces instructional design principles and practices, and provides essential content information required in subsequent courses in the certificate program.

## 2.2 Proposed enrollment for the proposed course:

Estimated initial enrollment in the course is 8 to 11 students with a projected increase to 12-20 students per offering. The projection for enrollment is based on the national trend for growth in the field of instructional design, the projected growth of online enrollments in graduate program, and current overall enrollment in the Instructional Design master's program. The enrollment should grow after the undergraduate certificate program is promoted and knowledge of its existence is well established.

Some students in the undergraduate programs at WKU may use the proposed course as a content elective.

## 2.3 Relationship of the proposed course to courses now offered by the department:

The proposed ID 465 Analysis and Design and Training Materials course complements ID 460 Introduction to Instructional Design, since ID 460 provides students with an overview of Instructional Design skills and models, which they further explore in the proposed ID 465 Analysis and Design and Training Materials course. The orientation of the proposed ID 465 is to engage students in the learner and training context analyses as well as develop their skills related to the design of training materials in a variety of settings, focusing primarily on adult learners training. Specifically, ID 465 provides students with skills essential for carrying out the first two stages of the ADDIE (Analyze, Design, Develop, Implement, Evaluate) model, i.e., needs analysis and design of training activities.

Several courses in the Business and Marketing Education have a business orientation. However, their focus is different from the proposed ID 460. For example, BE 350 Business Communication course focuses on communication process in business as related to managerial and professional communication. However, these learning outcomes are different from the proposed ID 465, since they do not cover a systematic instructional design process. BE 410 Digital Media for Business Educators emphasizes computer desktop publishing for creating documents and web pages via computer media. However, BE 410 does not introduce the ADDIE model for developing training materials.

## 2.4 Relationship of the proposed course to courses offered in other departments:

Two equivalent courses, the PSY 473 Training in Business and Industry and MGT 473 Training in Business and Industry, introduce theories, research and methods of training needs analysis, program design, implementation, and evaluation. However, these courses do not focus on the systematic instructional design process as the proposed ID 465. The proposed ID 465 focuses primarily on the analysis and design phases of the ADDIE model.

## 2.5 Relationship of the proposed course to courses offered at other institutions:

Several benchmark universities offer similar undergraduate courses. For example, the University of Louisville offers ELFH 300 Prior Learning Assessment, ELFH 311 Needs Assessment, and ELFH 312 Designing Learning courses. Each of these courses explores single components of the ADDIE (Analyze, Design, Develop, Implement, and Evaluate) model. By the way of contrast, the proposed ID 465 Analysis and Design of Training Materials course takes a holistic approach to the Instructional Design process by linking the first two ADDIE components together and preparing students for the consequent ID 570 Development and Evaluation of Training Materials course with the ultimate goal of providing students with basic Instructional Design skills to carry out all ADDIE model processes in one project. University of Southern Mississippi offers IT 241 Principles of Training and Development course that provides introduction and overview of training professions in both the public and private sector; to include onsite visitation of host industrial organizations and other institutions. However, this course

does not offer a hands-on experience of designing training materials like the proposed ID 465.

## 3. Discussion of proposed course:

## 3.1 Course Objectives:

The proposed course is designed to help students to:

- Identify a training problem.
- Write a goal statement/terminal objective for a training module.
- Conduct a goal analysis.
- Conduct a subordinate skills analysis.
- Conduct a context analysis and learner analysis for a training module.
- Write objectives for a training module.
- Write test items for a training module.
- Prepare an instructional strategy for a training module.

#### 3.2 Content outline:

- Assessing Needs to Identify Instructional Goals
- Conducting a Goal Analysis
- Identifying Subordinate Skills and Entry Behaviors
- Analyzing Learners and Contexts
- Writing Performance Objectives
- Writing Assessment Items
- Developing an Instructional Strategy

## 3.3 Student expectations and requirements:

Student expectations and course requirements may include such activities and projects as identification of instructional/training problems and exercises in audience and learner analysis, task analysis, strategy sequences, etc. The culminating project required of each student will be the development of assessment items aligned with the skills to-be-trained in a training module and a detailed outline of an instructional strategy for training the identified skills.

#### 3.4. Tentative texts and course materials:

Dick, Walter & Carey, Lou and Carey, Jim (2011). *The Systematic Design of Instruction*. (7th. ed.), Needham Heights, MA: Allyn & Bacon.

#### 4. Resources:

- **4.1 Library resources:** Library resources are adequate for the course.
- **4.2 Computer resources:** Current resources are adequate.

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- **5.1 Proposed method of staffing:** Two full-time Instructional Design faculty members were employed exclusively to deliver the Instructional Design program. In addition, several qualified part-time instructors have been identified who could also teach the course if needed.
- **5.2 Special equipment needed:** No special equipment is needed
- **5.3 Expendable materials needed:** None
- **5.4 Laboratory supplies needed:** None
- **6. Proposed term for implementation:**

Fall 2014

# 7. Dates of prior committee approvals:

School of Teacher Education	_02/14/2014_
CEBS Curriculum Committee	3/6/14
Undergraduate Curriculum Committee	_03/27/20154
University Senate	

Proposal Date: 12/05/2013

# College of Education and Behavioral Sciences Department of School of Teacher Education Proposal to Create a New Course (Action Item)

Contact Person: Elena Novak, elena.novak@wku.edu, 745-4135

#### 1. Identification of course:

1.1 Prefix and number: ID 470

**1.2 Title:** Development and Evaluation of Training **1.3 Abbreviated title:** Development and Evaluation

**1.4 Credit hours and contact hours:** 3/3

**1.5 Type of course:** (L)-Lecture

**1.6 Prerequisites:** ID 460 and ID 465 or instructor approval

**1.7 Course catalog listing:** Foundational information and activities to develop the skills necessary to develop, evaluate, and revise training activities.

#### 2. Rationale:

## 2.1 Reason for developing the proposed course:

In support of the WKU mission of valuing lifelong learning and providing opportunities for students to be productive and engaged leaders in a global society, the proposed course will introduce undergraduate students to instructional design principles required for developing effective instructional materials that can be used in a variety of educational and training settings. The proposed course also supports the initiative of the Council on Postsecondary Education to develop a college educated and highly skilled work force by 2020. The proposed course is necessary because it is a foundational course in the proposed Interactive Training Design certificate. Based on curricular outlines provided by the Association for Educational Communications and Technology, the foundation for developing an Instructional Design curriculum is built on research in the areas of analysis and design of training materials to address real world training issues. This course provides that foundation by orienting student to the field, introduces instructional design principles and practices, and provides essential content information required in subsequent courses in the certificate program.

## 2.2 Proposed enrollment for the proposed course:

Estimated initial enrollment in the course is 8 to 11 students with a projected increase to 12-20 students per offering. The projection for enrollment is based on the national trend for growth in the field of instructional design, the projected growth of online enrollments in graduate program, and current overall enrollment in the Instructional Design master's program. The enrollment should grow after the undergraduate certificate program is promoted and knowledge of its existence is well established.

Some students in the undergraduate programs at WKU may use the proposed course as a content elective.

## 2.3 Relationship of the proposed course to courses now offered by the department:

The proposed ID 470 Development and Evaluation of Training Materials complements ID 465 Analysis and Design and Training Materials and ID 460 Introduction to Instructional Design courses. ID 460 introduces students to Instructional Design processes and models, while ID 465 provides students with skills essential for carrying out the first two stages of the ADDIE (Analyze, Design, Develop, Implement, Evaluate) model, i.e., needs analysis and design of training activities. The goal of the proposed ID 470 is to examine in details the rest of the ADDIE model, i.e., development, implementation, and evaluation of training materials. The orientation of the proposed ID 470 is to engage students the development, implementation, and evaluation of training materials.

Several courses in the Business and Marketing Education have a business orientation. However, their focus is different from the proposed ID 460. For example, BE 350 Business Communication course focuses on communication process in business as related to managerial and professional communication. However, these learning outcomes are different from the proposed ID 465, since they do not cover a systematic instructional design process. BE 410 Digital Media for Business Educators emphasizes computer desktop publishing for creating documents and web pages via computer media. However, BE 410 does not introduce the ADDIE model for developing training materials.

## 2.4 Relationship of the proposed course to courses offered in other departments:

Two equivalent courses, the PSY 473 Training in Business and Industry and MGT 473 Training in Business and Industry, introduce theories, research and methods of training needs analysis, program design, implementation, and evaluation. However, these courses do not focus on systematic instructional design process as the proposed ID 470. The proposed ID 470 focuses primarily on the development, implementation, and evaluation phases of the ADDIE model.

## 2.5 Relationship of the proposed course to courses offered at other institutions:

Several benchmark universities offer similar undergraduate courses. For example, the University of Louisville offers ELFH 332 Measuring and Evaluating Effectiveness that focuses on how to assess the effectiveness of instructional programs and learning in the cognitive, psychomotor and affective domains. University of Southern Mississippi offers IT 241 Principles of Training and Development course that provides introduction and overview of training professions in both the public and private sector; to include onsite visitation of host industrial organizations and other institutions. Appalachian State University offers TEC 4660 Instructional Strategies in Career and Technology Education that explores instructional strategies appropriate for use in trade and industry (grades 9-12) and technology education (grades K-12) classrooms with

the ultimate goal of preparing lesson plans, presentations and demonstrations, and engaging in K-12 classroom-based observations. However, these courses do not offer a hands-on experience of developing, evaluating, and revising training materials as the proposed ID 470 does.

#### 3. Discussion of proposed course:

### 3.1 Course Objectives:

The proposed course is designed to help students to:

- Produce a first draft print copy of a training module.
- Obtain one review of a training module.
- Revise a training module based on the feedback received.
- Conduct three one-to-one formative evaluations of a training module, and describe the evaluation method and results.
- Revise a training module based upon the data collected during a one-to-one formative evaluations.

#### 3.2 Content outline:

- Developing Instructional Materials
  - o The designer's role in materials development and instructional delivery
  - o The delivery system and media selection
  - o Components of instructional package
  - o Existing instructional materials
- Designing and Conducting Formative Evaluations
  - o Subject-matter, learning, and learner specialists in formative evaluations
  - o One-to-one evaluation with learners
  - o Small-group evaluation
  - o Field trial
  - o Formative evaluation in the performance context
  - o Formative evaluation of selected materials
  - o Formative evaluation of instructor-led instruction
  - o Data collection
  - o Concerns influencing formative evaluation
  - o Problem solving during instructional design
- Revising Instructional Materials
  - o Data analysis for one-to-one trials
  - o Sequence for examining data
  - o Revision process
- Summative Evaluation

## 3.3 Student expectations and requirements:

Student expectations and course requirements may include such activities and projects as developing a training module, collaborating with a subject-matter expert, conducting formative evaluations, analyzing formative evaluation data, revising training materials,

etc. The culminating project required of each student will be producing a 20-minute module of print-based training by employing the ADDIE (Analyze, Design, Develop, Implement, Evaluate) model.

#### 3.4 Tentative texts and course materials:

Students will use the same textbook as in the ID 465 course: Dick, Walter & Carey, Lou and Carey, Jim (2011). *The Systematic Design of Instruction*. (7th. ed.), Needham Heights, MA: Allyn & Bacon.

and

Morrison, Ross, Kalman, & Kemp (2013), *Designing Effective Instruction*. Hoboken, NJ: Willey & Sons, Inc.

#### 4. Resources:

- **4.1 Library resources:** Library resources are adequate for the course.
- **4.2 Computer resources:** Current resources are adequate.

## 5. Budget Implications:

- **5.1 Proposed method of staffing:** Two full-time Instructional Design faculty members were employed exclusively to deliver the Instructional Design program. In addition, several qualified part-time instructors have been identified who could also teach the course if needed.
- **5.2 Special equipment needed:** No special equipment is needed
- **5.3 Expendable materials needed:** None
- **5.4 Laboratory supplies needed:** None
- **6. Proposed term for implementation:**

Fall 2014

# 7. Dates of prior committee approvals:

School of Teacher Education	02/14/2014		
CEBS Curriculum Committee	3/6/14		
Undergraduate Curriculum Committee	03/27/2014		
University Senate			

Proposal date: 12/02/2013

# College of Education and Behavioral Sciences Department of School of Teacher Education Proposal to Create a New Course (Action Item)

Contact Person: Xiaoxia "Silvie" Huang, xiaoxia.huang@wku.edu, 270-745-4322

## 1. Identification of proposed course:

- 1.3 Course prefix (subject area) and number: ID 475
- 1.4 Course title: Interactive Multimedia for Training
- 1.5 Abbreviated course title: Multimedia for Training
- 1.6 Credit hours and contact hours: 3.0
- 1.7 Type of course: (L)-Lecture
- 1.8 Prerequisites: ID 460 and ID 465 or instructor approval; AND prerequisite or corequisite: ID 470
- 1.9 Course catalog listing: 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.

#### 2. Rationale:

#### 2.1 Reason for developing the proposed course:

The proposed course aligns with the WKU mission of providing students with opportunities to become productive and engaged leaders in a global society, and it will better equip students with instructional design (ID) competencies and skills that are desirable in a competitive job market. We have consulted with potential employers and an ID advisory board with members of rich training experiences, and it was identified that industry standard media and technology skills for training are highly employable skills for instructional design students. The proposed course will allow students to apply principles and best practices of interactive multimedia design to producing a training module using appropriate software applications. The proposed course is necessary because it enhances and complements the skills and competencies students acquire in the other courses offered by the undergraduate Interactive Training Design certificate program. An interactive multimedia training course is commonly offered in undergraduate instructional design programs across different institutions. However, WKU currently does not have such a course that meets the requirement of skills and competencies expected of the students in the Instructional Design programs.

## 2.2 Proposed enrollment for the proposed course:

Estimated initial enrollment in the course is 8 to 11 students with a projected increase to 12-20 students per offering. The projection for enrollment is based on the national trend for growth in the field of instructional design, the projected growth of online enrollments in graduate program, and current overall enrollment in the Instructional Design master's

program. The enrollment should grow after the undergraduate certificate program is promoted and knowledge of its existence is well established. Some students in the undergraduate programs at WKU may use the proposed course as a content elective.

## 2.3 Relationship of the proposed course to courses now offered by the department:

The proposed ID 475 Interactive Multimedia for Training course includes some topics covered in LME 445 Introduction to Educational Technology and LME 448 Technology Applications in Education in the Library Media Education program. However, those courses focus on P-12 classroom settings. Similarly, BE 310 – Advanced Computer Applications for Business and BE 410 – Digital Media for Business Educators offered by the Business and Marketing Education program focus on the setting for business. The proposed ID 475 is different because it focuses on applying principles and strategies of multimedia design, interface design, and visual design to producing and evaluating multimedia products in a variety of settings, such as business and industry, government, military, and higher educational institutions.

## 2.4 Relationship of the proposed course to courses offered in other departments:

Several departments offer undergraduate courses that cover some of the topics in the proposed ID 475 course. For example, School of Journalism and Broadcasting offers JOUR 362 Web Narratives, JOUR 343 Print Design, Production and Typography, and JOUR 261 Introduction to Multimedia; Department of Art offers Art 430 Graphic Design and ART 436 Electronic Illustration. However, those courses do not focus on how to design interactive training materials. The proposed ID 475 Interactive Multimedia for Training course complements MGT473/PSY 473 Training in Business and Industry that focuses on an "introduction to theories, research and methods of training needs analysis, program design, implementation, and evaluation". However, ID 475 is different than MGT473/PSY 473 because the former focuses on applying principles and strategies of multimedia design, interface design, and visual design to producing and evaluating multimedia training products in a variety of settings, such as government, military, P-12 schools, and higher educational institutions in addition to business and industry settings. The proposed ID 475 will also use current and emerging technology of which most employers expect instructional designers to be proficient users.

## 2.5 Relationship of the proposed course to courses offered at other institutions:

A multimedia course is typically offered in Instructional Design and Technology programs across different institutions. Comparing this course with other benchmark universities, Bowling Green State University offers TECH 4300 Development of Training Programs that focuses on the design, production, and evaluation of training programs for industry and business. James Madison University offers LTLE 339 Production of Computer-based Material for Education that focuses on developing computer-based educational material presentations. University of Southern Mississippi offers IT 469 Multimedia Design and Development that focuses on application applications for effective presentations. The proposed ID 475 is different from these courses at other universities in its emphasis on project-based learning that integrates multimedia applications into a systematic approach of training design in a variety of

settings. This ID 475 course is intended to equip students with practical skills and competencies in applying multimedia principles and best practices in designing, developing, and evaluating an "authentic" interactive multimedia module for settings such as business and industry, government, military, or higher educational institutions. The proposed ID 475 will also use industry standard computer software of which most employers expect instructional designers to be proficient users.

## 3. Discussion of proposed course:

## 3.1 Course Objectives:

Upon completion of this course, students will be able to:

- Interpret and apply copyright and intellectual property policies to multimedia development
- 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
- Examine and evaluate current software applications for multimedia development
- Design a multimedia module using appropriate software applications in training settings
- Develop a multimedia module using appropriate software applications in training settings
- Evaluate a multimedia module using appropriate software applications in training settings

#### 3.2 Content outline:

- Introduction to multimedia design
- Copyright, fair use, and intellectual property issues for instructional designers
- Multimedia design principles
- Interface design principles
- Visual design principles
- Evaluating existing multimedia products for learning or training purposes
- Examining and selecting multimedia design software applications for instructional design projects
- Design specifications for instructional design projects
- Development of multimedia products for instructional design settings
- Publishing multimedia products
- Formative evaluation of multimedia products for learning or training purposes
- 3.3 Student expectations and requirements: Students may be assessed with a combination of the following assignments: reflection or group discussions on assigned topics, case analyses, evaluation and critique of multimedia products in instructional or training settings, presentation and writing report comparing and selecting multimedia design software applications, and design specification documents. The culminating project required of each student of the course is an effective and engaging multimedia module developed for an instructional or training setting. Final grade will be

determined by the accumulation of scores of all the individual assignments and the final project.

## 3.4. Tentative texts and course materials:

Mayer, R. (2012). Multimedia learning (2<sup>nd</sup> ed.). New York, NY: Cambridge University Press.

#### 4. Resources:

- **4.1 Library resources:** Library resources are adequate for the course.
- **4.2 Computer resources:** The CEBS Dean has stated that equipment and software will be secured to support the course

## 5. Budget Implications:

- **5.1 Proposed method of staffing:** Two full-time Instructional Design faculty members were employed exclusively to deliver the Instructional Design program. In addition, several qualified part-time instructors have been identified who could also teach the course if needed.
- **5.2 Special equipment needed:** Adobe Master Collection
- 5.3 Expendable materials needed: None
- **5.4 Laboratory supplies needed:** None

## 6. Proposed term for implementation:

Fall 2014

7.	<b>Dates</b>	of	prior	committee	approvals:
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School of Teacher Education	02/14/2014
CEBS Curriculum Committee	3/6/14
Undergraduate Curriculum Council	_03/27/2014
University Senate	

Proposal Date: January 31, 2014

## College of Education and Behavioral Sciences School of Teacher Education Proposal to Create a New Certificate Program (Action Item)

Contact Person: Xiaoxia "Silvie" Huang, xiaoxia.huang@wku.edu, 270-745-4322

#### 1. Identification of program:

- 1.1 Program title: Interactive Training Design
- 1.2 Required hours in program: 12 semester hours
- 1.3 Special information: This certificate would benefit any students interested in developing interactive training for almost any subject or topic.
- 1.4 Catalog description:

The most current program information may be found at www.wku.edu/ste.

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 Interactive Training Design Certificate 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 develop skills to develop multimedia training modules.

The Interactive Training Design Certificate 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 manuals, 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 students more employable after completion of this program.

Students who successfully complete the Interactive Training Design Certificate program will possess the following competencies and learning outcomes:

- Identify the steps, subordinate skills and entry behaviors and knowledge required to accomplish an instructional goal and correlated performance objectives.
- Produce an 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 applications in training settings

## Admission Requirements:

Minimum requirements for acceptance into the Interactive Training Design Certificate 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 \$40.00 (non-refundable).
- Transcript Record: Graduates/Transfers of accredited institutions other than WKU must submit an official transcript from that institution.

#### **Certificate Requirements:**

- ID 460 Introduction to Instructional Design, 3 credit hours
- ID 465 Analysis and Design of Training Materials, 3 credit hours
- ID 470 Development and Evaluation of Training Materials, 3 credit hours
- ID 475 Interactive Multimedia for Training, 3 credit hours
- 1.5 Classification of Instructional Program Code (CIP): 13.0501 Educational/Instructional Technology

## 2. Learning outcomes of the proposed certificate program:

Students who successfully complete the Interactive Training Design Certificate program will possess the following competencies and learning outcomes:

- Identify the steps, subordinate skills and entry behaviors and knowledge required to accomplish an instructional goal and correlated performance objectives.
- Produce an 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 applications in training settings

#### 3. Rationale:

3.1 Reason for developing the proposed certificate program:

In support of the WKU mission of valuing lifelong learning and providing opportunities for students to be productive and engaged leaders in a global society, and to support the initiation of the Council on Postsecondary Education to develop a college educated and

highly skilled work force by 2020, the proposed Interactive Training Design certificate program is designed to prepare students to analyze learners, learning contexts and skills, and design learning activities. Then students will learn to evaluate those learning activities and to revise training activities. Student will develop skills to develop multimedia training modules. The skills from this program can enhance the skill set of students from almost any undergraduate major. All disciplines and employment businesses or agencies provide training for their employees. Students who complete this certificate program will have the skill set to develop training modules.

According to the U.S. Department of Labor, Bureau of Labor Statistics, Occupational Outlook Handbook, 2013-14 Edition (http://www.bls.gov/ooh/), "Employment of instructional coordinators is expected to be 13% more than other occupations through the year 2022." The Occupational Outlook Handbook provides further indications of educational program need in the area of Training Development Specialists. The median annual earnings of instructional coordinators in 2012 were \$60,050. (U.S. Department of Labor, Bureau of Labor Statistics, Occupational Outlook Handbook, 2013-14 Edition (http://www.bls.gov/ooh/).

According to David Merrill (2013), a leader in the field of Instructional Design, many of the Instructional Design programs are moving to the undergraduate level for the training design skills and reserving the graduate programs for managerial training. We are proposing to "get our feet wet" with this national movement by offering these skills at the undergraduate level to WKU students from any major.

3.2 Relationship of the proposed certificate program to other programs now offered by the department:

The School of Teacher Education does not offer any undergraduate certificates related to Instructional Design. There is an Instructional Design Master of Science degree that offers more skills than the proposed undergraduate certificate program. There are many undergraduate teacher education programs that prepare students to earn a teaching certificate while the proposed Interactive Training Design certificate prepares students to design training for any workplace setting, mostly outside of public school education.

3.3 Relationship of the proposed certificate program to certificate programs offered in other departments:

Undergraduate certificate programs offered at WKU include Canadian Studies, Computer Literacy, Cross Cultural Communication in Health Care, Family Home Visiting, Leadership, Occupational Health and Safety, Worksite Health Promotion, and Long-term Care Administration. None of the curriculum of these certificate programs is related to the proposed Interactive Training Design certificate program.

3.4 Projected enrollment in the proposed certificate program:

Initial enrollment will be low over the first two years, but should increase to 15 to 20 students and rise beyond that in the following years. Since the program does not require prerequisites, course enrollment may be expected to attract students from WKU and from the business and industry community who are not degree seeking but have need to learn training and development skills.

As we have marketed the Master of Science degree in Instructional Design, many business employers have told us that they would like a similar undergraduate program since some of their employees, who could benefit from such a program, do not have bachelor's degrees.

- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): James Madison University offers the Educational Media minor that focuses on the design of information, instruction and media. However, this program does not equip students with instructional design skills. Bowling Green State University offers the online Bachelor of Science degree completion program in Learning Design and Technology. The program emphasizes theory and communication skills, new technology systems and management. However, it does not focus on the core ID processes like analysis, design, development, and evaluation of instructional materials. Western Illinois University offers Bachelor of Science in Instructional Design and Technology and minors (each 21 credit hours) in Web design, Digital Media, and Photographic Media. The proposed undergraduate ID certificate does not concern web or media development. Rather, it covers the essential ID competencies that undergraduate students can apply for training development in their workplace. University of Southern Mississippi offers a Bachelor of Science in Instructional technology and Design. The learning outcomes of the proposed undergraduate ID certificate represent a subset of the large set of skills taught in the University of Southern Mississippi.
- 3.6 Relationship of the proposed certificate program to the university mission and objectives: In support of the WKU mission of valuing lifelong learning and providing opportunities for students to be productive and engaged leaders in a global society, and to support the initiative of the Council on Postsecondary Education to develop a college educated and highly skilled work force by 2020, the proposed certificate program will offer valuable employment skills in developing training modules or activities. Any business or workplace must train its employees; therefore, these skills will make our graduates more employable upon graduation.

Instructional Design is a valued skill in international businesses because ID programs in the United States are known to empower students with more than just technology skills. Our WKU students who complete this certificate will possess skills in the full systematic instructional design process. As "A Leading American University with International Reach", WKU graduates will be better equipped to take advantage of international internships and employment opportunities.

## 4. Curriculum:

Certificate Requirements:

- ID 460 Introduction to Instructional Design, 3 credit hours
- ID 465 Analysis and Design of Training Materials, 3 credit hours
- ID 470 Development and Evaluation of Training Materials, 3 credit hours
- ID 475 Interactive Multimedia for Training, 3 credit hours

#### 5. Budget implications:

The two full-time Instructional Design faculty members will teach these courses. Two other qualified part-time instructors have been identified who could also teach courses if needed.

6.	Proposed term for implementation:
	Fall 2014

7.	. Da	ates of	prior	committee	approv	vals
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School of Teacher Education	02/14/2014

CEBS Curriculum Committee	3/6/14	
Contact with Office of Academic Affairs	03/27/2014	
Undergraduate Curriculum Committee	03/27/2014	
University Senate		
Board of Regents		

Proposal Date: 2/17/14

# College of Health and Human Services Department of Allied Health Proposal to Create a New Course (Action Item)

Contact Person: Barbara Bush, barbara.bush@wku.edu, 745-3825

## 1. Identification of proposed course:

1.1 Course prefix and number: DH 3701.2 Course title: Clinical Dental Hygiene II

1.3 Abbreviated course title: Clinical Dental Hygiene II

1.4 Credit hours: 4 Variable credit: no

1.5 Grade type: standard letter grade

1.6 Prerequisite: DH 271

1.7 Course description: 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 are responsible for their own transportation.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: This new course was developed to better prepare students for modifications in accreditation standards. The new course has added competency exams which test students at a higher taxonomic level than the previous course. The course can only be taken by those students with junior or senior standing. Last, every other Dental Hygiene course in this year of the program is at a 300 level. A 300 level course will more appropriately set student expectations regarding the breadth, depth, and rigor of this course.
- 2.2 Projected enrollment in the proposed course: 28; selective admissions into program; restricted to students admitted into program
- 2.3 Relationship of the proposed course to courses now offered by the department: DH 370 is a continuation course following a sequence of clinical courses.
- 2.4 Relationship of the proposed course to courses offered in other departments: N/A
- 2.5 Relationship of the proposed course to courses offered in other institutions: This course is similar to sequenced clinical courses in institutions with dental hygiene programs accredited through the Commission on Dental Accreditation.

#### 3. Discussion of proposed course:

3.1 Schedule type: H, K, and L. This is a hybrid course consisting of clinical, lecture, and seminar components.

- 3.2 Learning Outcomes: The course objectives expressed are the expected competencies of the third semester dental hygiene student. At the completion of the course, the student will:
  - Define "medical emergency" within the dental practice, as well as terminology
    associated with the prevention of medical emergencies and the management of a
    patient on a medical emergency: first aid, basic life support, cardiopulmonary
    resuscitation and artificial respiration.
  - Recognize and use the specific skills necessary for effective treatment of each individual patient as measured by regular competency evaluations.
  - Correctly demonstrate root planning/periodontal debridement techniques as measured by competency evaluation.
  - Correctly demonstrate ultrasonic scaling techniques as measured by competency evaluation.
  - Correctly demonstrate techniques of local anesthesia as measured by competency evaluation.
  - Develop patient communication skills at the 90% competency level.
  - Plan and implement treatment of at least one patient with periodontal involvement using periodontal charting and root planing/periodontal debridement.
  - Provide comprehensive therapy for a minimum of 14 patients at a 90% level of competency. These 14 patients must exhibit varying oral hygiene difficulty levels.
  - Perform subgingival irrigation on all patients presenting with periodontal pocket depths 4mm and greater with an appropriate chemotherapeutic agent.
  - Develop familiarity and skill using auxiliary instruments such as the air-powder abrasive system, hoe, file, and chisel.
  - Perform analysis of one patient's five-day dietary survey including adequate choices from the five food groups.
  - Display competence in the auxiliary roles in the dental office: i.e. sterilization, supply, reception, and radiographic image processing, clinic assisting.
  - Develop, organize, and present one Poster Session addressing specific techniques or procedures on a topic of general or professional interest.
  - Familiarize yourself with the role of the community dental hygienist with regular sessions on the Institute for Rural Health Development and Research Mobile Dental Unit.
  - Familiarize yourself with the role of the community dental hygienist with regular sessions at The Dental Clinic.
  - Develop and record a sense of community involvement and participation through maintenance of a service-learning reflection journal.
  - Demonstrate understanding of dental management software by successfully entering the required number of patient records in EagleSoft.
- 3.3 Content outline: This course consists of fourteen (14) hours of clinical experience, one hour lecture, and one hour seminar each week. The course concentrates on the dental patients' conditions beyond the routine prophylaxis procedures. The student is introduced to dietary counseling and supplemental instrumentation skills. Course emphasis is also placed on patients with special needs; including the diabetic patient, the cardiovascular disease patient, the geriatric patient, and the patient with mental and/or physical handicaps. This course also contains case study preparatory work, dietary counseling reviews, and a poster presentation.

- 3.4 Student expectations and requirements: The final grade for DH 370 will be derived from the following:
  - 1. Patient treatment
  - 2. Radiographs
  - 3. Examinations/quizzes
  - 4. Comprehensive services
  - 5. Poster Presentation
- 3.5 Tentative texts and course materials:

Wilkins, <u>Clinical Practice of the Dental Hygienist</u>, 11<sup>th</sup> Edition, Philadelphia: Lippincott Williams & Wilkins, 2013.

Nield-Gehrig, Fundamentals of Periodontal Instrumentation, Seventh Edition,

Philadelphia: Lippincott Williams &

Wilkins, 2013.

Wyche and Wilkins, Student Workbook for Clinical Practice of the Dental Hygienist,

11<sup>th</sup> Edition, Philadelphia: Lippincott

Williams & Wilkins, 2013.

#### 4. Resources:

- 4.1 Library resources: Existing are sufficient
- 4.2 Computer resources: Existing are sufficient
- 5. Budget implications:
  - 5.1 Proposed method of staffing: Current staffing is sufficient to offer this course. The instructor who is currently teaching DH 211 (which is being deleted) will teach DH 370.
  - 5.2 Special equipment needed: Existing equipment is sufficient
  - 5.3 Expendable materials needed: Existing is sufficient
  - 5.4 Laboratory materials needed: Existing is sufficient
- **6.** Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Allied Health Curriculum Committee CHHS Undergraduate Curriculum Committee	2-19-14
	3/7/2014
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 120-M1
- 1.2 Course title: Basic Electricity Module 1
- 1.3 Abbreviated course title: Basic Electricity Module 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: Eligibility for MATH 116
- 1.7 Course description: Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Identify basic electrical components in a circuit
- Read color codes on resistors and find appropriate values of other circuit components
  - 3.3 Content outline:

Introduction to topics including:

• Color codes on resistors

- Basic electrical components
- Parallel and series components
- Current, voltage, resistance and power usage
- Basic test equipment for electronics
  - 3.4 Student expectations and requirements:
- Participation
- Homework
- Lab project
- Quizzes
- Tests
- Notebook/Sketchbook
  - 3.5 Tentative texts and course materials: Meade, Russel L. (2007) Foundations of Electronics: Circuits and devices 5th edition, Thomson Delmar Learning

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

	2-7-2014
Department: Architecture & Manufacturing Sciences	
	3-6-2014
OCSE Curriculum Committee	
	3-27-2014
Undergraduate Curriculum Committee	
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 120-M2
- 1.2 Course title: Basic Electricity Module 2
- 1.3 Abbreviated course title: Basic Electricity Module 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 120 M1
- 1.7 Course description: Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis.
- 3.2 Learning Outcomes:
- Appropriately operate basic test equipment for the electronics industry
- Construct Circuits

#### 3.3 Content outline:

Application of topics including:

- Color codes on resistors
- Basic electrical components

- Parallel and series components
- Current, voltage, resistance and power usage
- Basic test equipment for electronics
  - 3.4 Student expectations and requirements:
- Participation
- Homework
- Lab Projects
- Quizzes
- Tests
- Notebook/Sketchbook
  - 3.5 Tentative texts and course materials: Meade, Russel L. (2007) Foundations of Electronics: Circuits and devices 5th edition, Thomson Delmar Learning

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course

# 6. Proposed term for implementation: Fall 2014

# 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

2-7-2014

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 120-M3

- 1.2 Course title: Basic Electricity Module 3
- 1.3 Abbreviated course title: Basic Electricity Module 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 120 M2
- 1.7 Course description: Basic concepts of AC and DC current, various types of circuits, electron theory and electrical laws.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Distinguish between parallel and series components of a circuit
- Calculate current, voltage, resistance and power usage in a circuit or component of a circuit

## 3.3 Content outline:

Synthesis of topics including:

- Color codes on resistors
- Basic electrical components
- Parallel and series components
- Current, voltage, resistance and power usage

- Basic test equipment for electronics
  - 3.4 Student expectations and requirements:
- Participation
- Homework
- Lab Projects
- Quizzes
- Tests
- Notebook/Sketchbook
  - 3.5 Tentative texts and course materials: Meade, Russel L. (2007) Foundations of Electronics: Circuits and devices 5th edition, Thomson Delmar Learning

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 205-M1

- 1.2 Course title: CADD for Manufacturing Module 1
- 1.3 Abbreviated course title: CADD for Manufacturing Mod 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.6 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.7 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.8 Relationship of the proposed course to courses offered in other departments: None
- 2.9 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Basic concepts of feature-based, parametric 3D solid modeling
- Basic concepts of 2D drawing generation
  - 3.3 Content outline:

# Introduction to topics including:

- 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
  - 3.4 Student expectations and requirements:
- Participation
- Homework
- Discussions
- Quizzes
- Tests
  - 3.5 Tentative texts and course materials: Dix, M., Riley, P. (2011). Discovering AutoCAD 2011. Prentice Hall. Upper Saddle River, NJ.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 205-M2
- 1.2 Course title: CADD for Manufacturing Mod 2
- 1.3 Abbreviated course title: CADD for Manufacturing Module 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 205 M1
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis
- 3.2 Learning Outcomes:
- 3D solids modeling to related manufacturing operations
  - 3.3 Content outline:

Application of topics including:

- 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
  - 3.4 Student expectations and requirements:
- Participation
- Homework
- Discussions
- Quizzes
- Tests
  - 3.5 Tentative texts and course materials: Dix, M., Riley, P. (2011). Discovering AutoCAD 2011. Prentice Hall. Upper Saddle River, NJ.

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014	
•	3-6-2014	
OCSE Curriculum Committee	3-27-2014	
Undergraduate Curriculum Committee		
University Senate		

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

#### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 205-M3
- 1.2 Course title: CADD for Manufacturing Mod 3
- 1.3 Abbreviated course title: CADD for Manufacturing Module 31.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 205 M2
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.6 Learning Outcomes:
- Data exchanges of 3D solid modeling databases
  - 3.7 Content outline:

## Synthesis of topics including:

- 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
  - 3.8 Student expectations and requirements:
- Participation
- Homework
- Discussions
- Ouizzes
- Tests
  - 3.9 Tentative texts and course materials: Dix, M., Riley, P. (2011). Discovering AutoCAD 2011. Prentice Hall. Upper Saddle River, NJ.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
•	3-6-2014
OCSE Curriculum Committee	3-27-2014
Undergraduate Curriculum Committee	
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 217-M1
- 1.2 Course title: Industrial Materials Module 1
- 1.3 Abbreviated course title: Industrial Materials Module 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: Math 116 or higher
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Design mechanical structures based on materials properties, classification, structure property application relationship
  - 3.3 Content outline:

Introduction to topics including:

- Introduction to materials, classification of materials
- Structure of the materials
- Properties of the materials and their measurement
- Laboratory experiences on testing of materials
- Metals and alloys
- Polymers, ceramic and composites
- Failures of materials
- Materials and process selection
  - 3.4 Student expectations and requirements:
- Quizzes
- Assignments
- Final Exam
  - 3.5 Tentative texts and course materials: Murray, G., White, C.V. and Weise, W. (2008) Introduction to Engineering Materials (2<sup>nd</sup> ed.), CRC press, Taylor & Francis Group, ISBN 1-57444-683-5

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014	
1	3-6-2014	
OCSE Curriculum Committee		
Undergraduate Curriculum Committee	3-27-2014	
University Senate		

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 217-M2
- 1.2 Course title: Industrial Materials Module 2
- 1.3 Abbreviated course title: Industrial Materials Module 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 217 M1
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis
- 3.2 Learning Outcomes:
- Perform fundamental materials testing for industrial applications
- Originate laboratory reports on different mechanical properties testing
  - 3.3 Content outline:

Application of topics including:

- Introduction to materials, classification of materials
- Structure of the materials
- Properties of the materials and their measurement
- Laboratory experiences on testing of materials
- Metals and alloys
- Polymers, ceramic and composites
- Failures of materials
- Materials and process selection
  - 3.4 Student expectations and requirements:
- Attendance
- Lab report
- Lab viva
  - 3.5 Tentative texts and course materials: Murray, G., White, C.V. and Weise, W. (2008) Introduction to Engineering Materials (2<sup>nd</sup> ed.), CRC press, Taylor & Francis Group, ISBN 1-57444-683-5

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing	2-7-2014
Sciences	
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 217-M3

- 1.2 Course title: Industrial Materials Module 3
- 1.3 Abbreviated course title: Industrial Materials Module 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 217 M2
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Calculate mechanical properties from real life examples
- Select appropriate materials, perform necessary testing and calculate different properties for industrial design and applications

#### 3.3 Content outline:

Synthesis of topics including:

- Introduction to materials, classification of materials
- Structure of the materials
- Properties of the materials and their measurement
- Laboratory experiences on testing of materials
- Metals and alloys
- Polymers, ceramic and composites
- Failures of materials
- Materials and process selection
  - 3.4 Student expectations and requirements:
- Quizzes
- Assignments
- Final Exam
  - 3.5 Tentative texts and course materials: Murray, G., White, C.V. and Weise, W. (2008) Introduction to Engineering Materials (2nd ed.), CRC press, Taylor & Francis Group, ISBN 1-57444-683-5

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

# 7. Dates of prior committee approvals:

2-7-2014
3-6-2014
3-27-2014

2.7.2014


# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 227-M1
- 1.2 Course title: Introduction to Manufacturing Methods Module 1
- 1.3 Abbreviated course title: Intro to Manufact Methods Mod 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
  - Ability to read prints and asses measurements
  - Displaying safety in all aspects of operation of equipment and lab proceedings
- 3.3 Content outline:

Introduction to topics including:

Identify common shop hazards

- Identify and use common shop safety equipment
- Use rules, 63ernier calipers, dial calipers, and micrometers in machine shop measurements
- Properly use horizontal and vertical band saw machines
- Properly use brake and shear machines in sheet metal operations
- Properly use drill presses and milling/drilling machines in drilling, countersinking, counter boring, and reaming operations
- Learn basic casting methods
- Tap holes by hand
- Properly perform basic functions on a vertical milling machine
- Properly perform basic functions on a horizontal milling machine
- Properly perform basic functions on a turning machine
- Properly perform basic functions on a surface grinder
- Describe grinding wheel types and uses, and the dressing operation
- Understand basic principles of welding operations
  - 3.4 Student expectations and requirements:
- Lab participation
- Homework
- Lab projects
- Outline for paper
- Paper written
- Tests
- Quizzes
- Lab cleanup
  - 3.5 Tentative texts and course materials: Kibbe, R. R., Meyer, R. O., Neely, J. E., and White, W. T., (2010), Machine Tool Practices, (9<sup>th</sup> Edition). Prentice Hall

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: /	Architecture & Manufacturing Sciences	2-7-2014

2.7.2014

OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 227 M2
- 1.2 Course title: Intro to Manufacturing Methods Module 2
- 1.3 Abbreviated course title: Intro to Manufact Methods Mod 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 227 M1
- 1.7 Course description: A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis
- 3.2 Learning Outcomes:
- Working with hand and machine tools
  - 3.3 Content outline:

Application of topics including:

- Identify common shop hazards
- Identify and use common shop safety equipment
- Use rules, 65ernier calipers, dial calipers, and micrometers in machine shop measurements

- Properly use horizontal and vertical band saw machines
- Properly use brake and shear machines in sheet metal operations
- Properly use drill presses and milling/drilling machines in drilling, countersinking, counter boring, and reaming operations
- Learn basic casting methods
- Tap holes by hand
- Properly perform basic functions on a vertical milling machine
- Properly perform basic functions on a horizontal milling machine
- Properly perform basic functions on a turning machine
- Properly perform basic functions on a surface grinder
- Describe grinding wheel types and uses, and the dressing operation
- Understand basic principles of welding operations
  - 3.4 Student expectations and requirements:
- Lab participation
- Homework
- Lab projects
- Outline for paper
- Paper written
- Tests
- Quizzes
- Lab cleanup
  - 3.5 Tentative texts and course materials: Kibbe, R. R., Meyer, R. O., Neely, J. E., and White, W. T., (2010), Machine Tool Practices, (9<sup>th</sup> Edition). Prentice Hall

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 227-M3
- 1.2 Course title: Intro to Manufacturing Methods Module 3
- 1.3 Abbreviated course title: Intro to Manufact Methods Mod
- 1.4 3 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 227 M2
- 1.7 Course description: A descriptive study of manufacturing processes using production equipment with laboratory experiences in forming and separating processes.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Understanding the basic use of hand operated machinery for manufacturing
  - 3.3 Content outline:

Synthesis of topics including:

- Identify common shop hazards
- Identify and use common shop safety equipment

- Use rules, 69ernier calipers, dial calipers, and micrometers in machine shop measurements
- Properly use horizontal and vertical band saw machines
- Properly use brake and shear machines in sheet metal operations
- Properly use drill presses and milling/drilling machines in drilling, countersinking, counter boring, and reaming operations
- Learn basic casting methods
- Tap holes by hand
- Properly perform basic functions on a vertical milling machine
- Properly perform basic functions on a horizontal milling machine
- Properly perform basic functions on a turning machine
- Properly perform basic functions on a surface grinder
- Describe grinding wheel types and uses, and the dressing operation
- Understand basic principles of welding operations
  - 3.4 Student expectations and requirements:
- Lab participation
- Homework
- Lab projects
- Outline for paper
- Paper written
- Tests
- Quizzes
- Lab cleanup
  - 3.5 Tentative texts and course materials: Kibbe, R. R., Meyer, R. O., Neely, J. E., and White, W. T., (2010), Machine Tool Practices, (9<sup>th</sup> Edition). Prentice Hall

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences 2-7-2014

OCSE Curriculum Committee Undergraduate Curriculum Committee	3-6-2014
	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

#### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 310-M1
- 1.2 Course title: Work Design/Ergonomics Module 1
- 1.3 Abbreviated course title: Work Design/Ergonomics Mod 1
   1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: MATH 116
- 1.7 Course description: 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

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

## Portions of the following:

- Analyze the functions of the human body and its interactions with the environment
- Apply the principles of ergonomic design for jobs and products in industry design machine interaction

- Investigate the similarities and differences between "work design" and "ergonomics"
- Design for manual, semi-automated and automated work system and calculate different important parameters of work system
- Apply the principles for good design and understand the consequences of poor job and product design
- Apply the knowledge in real life design of manufacturing parts, assemblies as well as work system

#### 3.3 Content outline:

# Introduction to topics including:

- Introduction to human factor and/or ergonomics and its importance
- Fundamentals of human factor/ergonomics
- Posture and movement
- Information and operation
- Environmental factors
- Work organization jobs and tasks design
- Design for manual, semi-automated and automated work system
- Design for health, safety and comfort
- Human-computer interaction
- Learning the ergonomic approach
- Case study/application examples of human factors and ergonomics: Website design, office design, manufacturing plant design etc

# 3.4 Student expectations and requirements:

- Quizzes
- Assignments
- Discussions
- Term paper
- Mid-term exam
- Final exam

## 3.5 Tentative texts and course materials:

- Dul, J. and Weerdmeester, B. (2008) Ergonomics for Beginners: A Quick Reference Guide (3rded.), CRC press, Taylor & Francis Group, ISBN 978-1-4200-7751-3
- Mikell P. Groover (2007) Work Systems and the Methods, Measurement, and Management of Work, Pearson Education, Inc., ISBN 0-13-140650-7.

## 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: <u>Architecture &amp; Manufacturing</u> Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 310-M2
- 1.2 Course title: Work Design/Ergonomics Mod 2
- 1.3 Abbreviated course title: Work Design/Ergonomics Module 2
   1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 310 M1
- 1.7 Course description: 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

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

### Portions of the following:

- Analyze the functions of the human body and its interactions with the environment
- Apply the principles of ergonomic design for jobs and products in industry
- Design
- For asks and Jobs; Health, Safety and Comfort; People
- Machine interaction

- Investigate the similarities and differences between
- "Work Design" and "Ergonomics"
- Design for manual, semi-automated and automated work system and calculate different important parameters of work system
- Apply the principles for good design and understand the consequences of poor job and product design
- Apply the knowledge in real life design of manufacturing parts, assemblies as well as work system

#### 3.3 Content outline:

## Application of topics including:

- Analyze the functions of the human body and its interactions with the environment
- Apply the principles of ergonomic design for jobs and products in industry design machine interaction
- Investigate the similarities and differences between "work design" and "ergonomics"
- Design for manual, semi-automated and automated work system and calculate different important parameters of work system
- Apply the principles for good design and understand the consequences of poor job and product design
- Apply the knowledge in real life design of manufacturing parts, assemblies as well as work system

## 3.4 Content outline:

## Portions of the following:

- Introduction to human factor and/or ergonomics and its importance
- Fundamentals of human factor/ergonomics
- Posture and movement
- Information and operation
- Environmental factors
- Work organization jobs and tasks design
- Design for manual, semi-automated and automated work system
- Design for health, safety and comfort
- Human-computer interaction
- Learning the ergonomic approach
- Case study/application examples of human factors and ergonomics: Website design, office design, manufacturing plant design etc

### 3.5 Student expectations and requirements:

- Quizzes
- Assignments
- Discussions
- Term paper
- Mid-term exam
- Final exam

- 3.6 Tentative texts and course materials:
- Dul, J. and Weerdmeester, B. (2008) Ergonomics for Beginners: A Quick Reference Guide (3rded.), CRC press, Taylor & Francis Group, ISBN 978-1-4200-7751-3
- Mikell P. Groover (2007) Work Systems and the Methods, Measurement, and Management of Work, Pearson Education, Inc., ISBN 0-13-140650-7.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 310-M3
- 1.2 Course title: Work Design/Ergonomics Module 3
- 1.3 Abbreviated course title: Work Design/Ergonomics Mod 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 310 M2
- 1.7 Course description: 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

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

## Synthesis of topics including:

- Analyze the functions of the human body and its interactions with the environment
- Apply the principles of ergonomic design for jobs and products in industry design machine interaction
- Investigate the similarities and differences between "work design" and "ergonomics"

- Design for manual, semi-automated and automated work system and calculate different important parameters of work system
- Apply the principles for good design and understand the consequences of poor job and product design
- Apply the knowledge in real life design of manufacturing parts, assemblies as well as work system

#### 3.3 Content outline:

#### Portions of the following:

- Introduction to human factor and/or ergonomics and its importance
- Fundamentals of human factor/ergonomics
- Posture and movement
- Information and operation
- Environmental factors
- Work organization jobs and tasks design
- Design for manual, semi-automated and automated work system
- Design for health, safety and comfort
- Human-computer interaction
- Learning the ergonomic approach
- Case study/application examples of human factors and ergonomics: Website design, office design, manufacturing plant design etc

#### 3.4 Student expectations and requirements:

- Quizzes
- Assignments
- Discussions
- Term paper
- Mid-term exam
- Final exam

### 3.5 Tentative texts and course materials:

- Dul, J. and Weerdmeester, B. (2008) Ergonomics for Beginners: A Quick Reference Guide (3rded.), CRC press, Taylor & Francis Group, ISBN 978-1-4200-7751-3
- Mikell P. Groover (2007) Work Systems and the Methods, Measurement, and Management of Work, Pearson Education, Inc., ISBN 0-13-140650-7.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

5.1 Proposed method of staffing: Current faculty

- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 328-M1
- 1.2 Course title: Robotics & Machine Vision Mod 1
- 1.3 Abbreviated course title: Robotics & Machine Vision Module 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications.

#### 2 Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.6 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.7 Learning Outcomes:
- Identify the capabilities and limitations of robotic systems
- Observe manufacturing applications of robotic systems
  - 3.8 Content outline:

Introduction to topics including:

Introduction to industrial robotics

- Fundamentals of robotics
- Programming the robot
- Industrial application
- Use of sensors
- Robotics in manufacturing
- Future of robotics
- Applications of robotics
  - 3.9 Student expectations and requirements:
- Quizzes
- Homework
- Tests
- Labs
  - 3.10 Tentative texts and course materials:

Robotics: Theoryand Industrial Applications

Author: Ross, Larry, T. ISBN: 978-1-60525-321-3

Goodheart Willcox

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 328-M2

1.2 Course title: Robotics & Machine Vision Module 2

1.3 Abbreviated course title: Robotics & Machine Vision Module 2

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 328-M1

1.7 Course description: Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications.

#### 2 Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis.
- 3.2 Learning Outcomes:
- Integrate robotics and machine vision applications with automated equipment
  - 3.3 Content outline:

Application of topics including:

- Introduction to industrial robotics
- Fundamentals of robotics

- Programming the robot
- Industrial application
- Use of sensors
- Robotics in manufacturing
- Future of robotics
- Applications of robotics
  - 3.4 Tentative texts and course materials:

Robotics: Theoryand Industrial Applications

Author: Ross, Larry, T. ISBN: 978-1-60525-321-3

Goodheart Willcox

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- 5.4 Laboratory materials needed: Expendables covered by lab fees for course

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 328-M3
- 1.2 Course title: Robotics & Machine Vision Module 3
- 1.2 Abbreviated course title: Robotics & Machine Vision Module 3
- 1.3 Credit hours: 1 Variable credit: No
- 1.4 Grade type: Standard letter grade
- 1.5 Prerequisites: AMS 328-M2
- 1.6 Course description: Introduction to capabilities and limitations of robotic and machine vision systems, as well as fundamentals of programming. Laboratory activities are focused toward manufacturing applications.

#### 2 Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture-Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Develop specification for robotic and vision systems in automated manufacturing applications
- Develop and apply programming techniques for robotics and machine vision
  - 3.3 Content outline:

#### Synthesis of topics including:

• Introduction to industrial robotics

- Fundamentals of robotics
- Programming the robot
- Industrial application
- Use of sensors
- Robotics in manufacturing
- Future of robotics
- Applications of robotics
  - 3.4 Student expectations and requirements:
- Quizzes
- Homework
- Test 1, 2, 3
- Labs
  - 3.5 Tentative texts and course materials:

Robotics: Theoryand Industrial Applications

Author: Ross, Larry, T. ISBN: 978-1-60525-321-3

Goodheart Willcox

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- 5.4 Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

2.7.2014

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 342-M1
- 1.2 Course title: Manufacturing Operations Mod 1
- 1.3 Abbreviated course title: Manufacturing Operations Module 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: Survey of methods for designing products for improved quality and manufacturability in industry, and designing manufacturing processes for improved reliability.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

Portions of the following:

- Discuss ethical situations dealing with manufacturing situation on discussion boards.
- Match manufacturing terms to appropriate process needed to improve quality of products
- Compare manufacturing processes involved in making products more reliable

#### 3.3 Content outline:

### Introduction to topics including:

- Fundamentals of materials
- Structure of metals
- Mechanical behavior and testing
- Physical properties of metals
- General properties of metal alloys, ferrous metals, nonferrous metals, polymers, ceramics, graphite, diamond, and composite materials
- Metal-casting process
- Rolling of metals
- Forging
- Machining processes
- Fabrication of microelectronic devices
  - 3.4 Student expectations and requirements:
- Quizzes
- Article Summary
- Participation
- Homework
- Final
  - 3.5 Tentative texts and course materials: None Required (All readings supplied on Blackboard)

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- 5.4 Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 342-M2
- 1.2 Course title: Manufacturing Operations Module 2
- 1.3 Abbreviated course title: Manufacturing Operations Mod 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 342-M1
- 1.7 Course description: Survey of methods for designing products for improved quality and manufacturability in industry, and designing manufacturing processes for improved reliability.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

Portions of the following:

- Discuss ethical situations dealing with manufacturing situation on discussion boards.
- Match manufacturing terms to appropriate process needed to improve quality of products
- Compare manufacturing processes involved in making products more reliable
- 3.3 Content outline:

Introduction to topics including:

- Fundamentals of materials
- Structure of metals
- Mechanical behavior and testing
- Physical properties of metals
- General properties of metal alloys, ferrous metals, nonferrous metals, polymers, ceramics, graphite, diamond, and composite materials
- Metal-casting process
- Rolling of metals
- Forging
- Machining processes
- Fabrication of microelectronic devices
  - 3.4 Student expectations and requirements:
- Quizzes
- Article Summary
- Participation
- Homework
- Final
  - 3.5 Tentative texts and course materials: None Required (All readings supplied on Blackboard)

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- 5.4 Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing	2-7-2014
Sciences	
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 342-M3
- 1.2 Course title: Manufacturing Operations Module 3
- 1.3 Abbreviated course title: Manufacturing Operations Mod 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 342-M2
- 1.7 Course description: Survey of methods for designing products for improved quality and manufacturability in industry, and designing manufacturing processes for improved reliability.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

Portions of the following:

- Discuss ethical situations dealing with manufacturing situation on discussion boards.
- Match manufacturing terms to appropriate process needed to improve quality of products
- Compare manufacturing processes involved in making products more reliable
- 3.3 Content outline:

Synthesis of topics including:

- Fundamentals of materials
- Structure of metals
- Mechanical behavior and testing
- Physical properties of metals
- General properties of metal alloys, ferrous metals, nonferrous metals, polymers, ceramics, graphite, diamond, and composite materials
- Metal-casting process
- Rolling of metals
- Forging
- Machining processes
- Fabrication of microelectronic devices
  - 3.4 Student expectations and requirements:
- Quizzes
- Article Summary
- Participation
- Homework
- Final
  - 3.5 Tentative texts and course materials: None Required (All readings supplied on Blackboard)

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing	2-7-2014
<u>Sciences</u>	-
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

- 5.1 Course prefix (subject area) and number: AMS 343-M1
- 5.2 Course title: Automated Systems Module 1
- 5.3 Abbreviated course title: Automated Systems Module 1
- 5.4 Credit hours: 1 Variable credit: No
- 5.5 Grade type: Standard letter grade
- 5.6 Prerequisites: AMS 120 or AMS 120-M3 or approval of instructor.
- 5.7 Course description: 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.

#### 6 Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Understand basic digital logic gates and Boolean algebra
- Understand PLC hardwire installation
- Define parameters and components of automated systems;
- Define inputs and outputs for automated systems

#### 3.3 Content outline:

Introduction to topics including:

- Basic digital logic gates and Boolean Algebra
- An overall look at PLCs
- Devices to which PLC I/O modules are connected
- Relation of digital logic to contact coil logic
- Creating ladder diagrams from process control descriptions
- Register basics
- PLC timer functions
- PLC counter functions
- PLC arithmetic functions
- PLC number comparison functions
- PLC SKIP and MASTER CONTROL RELEY functions
- Jump functions
  - 3.4 Student expectations and requirements:
- Ouizzes
- Homework
- Tests
- Labs
  - 3.5 Tentative texts and course materials:
    - 1. Petruzella, F.D. (2011). Programmable Logic Controllers 4<sup>th</sup> Ed. McGraw Hill, New York, NY.
    - 2. Petruzella, F.D. (2011). Programmable Logic Controllers Activities Manual 4<sup>th</sup> Ed. McGraw Hill, New York, NY

#### 4. Resources:

- 6.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 6.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3Expendable materials needed: None
- 5.4 Laboratory materials needed: None

### 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing	2-7-2014
Sciences  OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

5.1 Course prefix (subject area) and number: AMS 343-M2

5.2 Course title: Automated Systems Module 2

5.3 Abbreviated course title: Automated Systems Module 2

5.4 Credit hours: 1 Variable credit: No

5.5 Grade type: Standard letter grade

5.6 Prerequisites: AMS 343-M1

5.7 Course description: 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.

#### 6 **Rationale:**

- 6.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 6.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 6.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 6.4 Relationship of the proposed course to courses offered in other departments: None
- 6.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.6 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis.
- 3.7 Learning Outcomes:
- Write and execute relay ladder logic program
- Develop relay ladder logic programming language
- Create automated solutions to manufacturing problems

#### 3.8 Content outline:

Application of topics including:

- Basic digital logic gates and Boolean Algebra
- An overall look at PLCs

- Devices to which PLC I/O modules are connected
- Relation of digital logic to contact coil logic
- Creating ladder diagrams from process control descriptions
- Register basics
- PLC timer functions
- PLC counter functions
- PLC arithmetic functions
- PLC number comparison functions
- PLC SKIP and MASTER CONTROL RELEY functions
- Jump functions
  - 3.9 Student expectations and requirements:
- Quizzes
- Homework
- Tests
- Labs
  - 3.10 Tentative texts and course materials:
    - 3. Petruzella, F.D. (2011). Programmable Logic Controllers 4<sup>th</sup> Ed. McGraw Hill, New York, NY.
    - 4. Petruzella, F.D. (2011). Programmable Logic Controllers Activities Manual 4<sup>th</sup> Ed. McGraw Hill, New York, NY

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course

## 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

2.7.2014

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 343-M3

1.2 Course title: Automated Systems Module 3

1.3 Abbreviated course title: Automated Systems Module 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade1.6 Prerequisites: AMS 343-M2

1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:
- Manage automated systems and processes
  - 3.3 Content outline:

Synthesis of topics including:

- Basic digital logic gates and Boolean Algebra
- An overall look at PLCs

- Devices to which PLC I/O modules are connected
- Relation of digital logic to contact coil logic
- Creating ladder diagrams from process control descriptions
- Register basics
- PLC timer functions
- PLC counter functions
- PLC arithmetic functions
- PLC number comparison functions
- PLC SKIP and MASTER CONTROL RELEY functions
- Jump functions
  - 3.4 Student expectations and requirements:
- Quizzes
- Homework
- Tests
- Labs
  - 3.5 Tentative texts and course materials:
- 4 Petruzella, F.D. (2011). Programmable Logic Controllers 4<sup>th</sup> Ed. McGraw Hill, New York, NY.
- 5 Petruzella, F.D. (2011). Programmable Logic Controllers Activities Manual 4<sup>th</sup> Ed. McGraw Hill, New York, NY

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1Proposed method of staffing: Current faculty
- 5.2Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	
	Proposal Date: January 28, 2014

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 352-M1
- 1.2 Course title: Food Processing: Unit Operations Module 1
- 1.3 Abbreviated course title: Food Processing Unit Op Mod 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

Introduction to topics including:

- Explain the basic terms and principles of food processing
- Understand the concepts of food processing and preservation and their relationship to food safety and quality
- Explain how each type of food processing technique is employed to preserve the food.

• Identify the food processing equipment required to make the most common food products.

#### 3.3 Content outline:

## Portions of the following:

- Properties of food processing
- Raw material preparation
- Separation and concentration of food components
- Heat processing
- Pasteurization
- Heat sterilization
- Evaporation and distillation
- Dehydration, smoking, baking, roasting, frying, chilling at modified atmospheres, freezing, freeze drying and freeze concentration
- Fermentation and enzyme technology
- High-pressure processing
- Minimal processing methods
  - 3.4 Student expectations and requirements:
- Tests
- Final exam
- Quizzes
- Term paper
- Homework
  - 3.5 Tentative texts and course materials: Fellows, P.J. (2009). Food Processing Technology Principles and Practice, 3<sup>rd</sup> edition. CRC Press, Boca Raton, FL. ISBN# 9781439808214.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufac	<u>xuring</u> 2-7-2014
Sciences	
OCSE Curriculum Committee	3-6-2014

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Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 352-M2
- 1.2 Course title: Food Processing: Unit Operations Module 2
- 1.3 Abbreviated course title: Food Processing Unit Op Mod 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 352-M1
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

Portions of the following:

• Explain the basic terms and principles of food processing

- Understand the concepts of food processing and preservation and their relationship to food safety and quality
- Explain how each type of food processing technique is employed to preserve the food.
- Identify the food processing equipment required to make the most common food products.

### 3.3 Content outline:

#### Application of topics including:

- Properties of food processing
- Raw material preparation
- Separation and concentration of food components
- Heat processing
- Pasteurization
- Heat sterilization
- Evaporation and distillation
- Dehydration, smoking, baking, roasting, frying, chilling at modified atmospheres, freezing, freeze drying and freeze concentration
- Fermentation and enzyme technology
- High-pressure processing
- Minimal processing methods
  - 3.4 Student expectations and requirements:
- Tests
- Final exam
- Quizzes
- Term paper
- Homework
  - 3.5 Tentative texts and course materials: Fellows, P.J. (2009). Food Processing Technology Principles and Practice, 3<sup>rd</sup> edition. CRC Press, Boca Raton, FL. ISBN# 9781439808214.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

### 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee  Undergraduate Curriculum Committee	3-6-2014
	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 352-M3

- 1.2 Course title: Food Processing: Unit Operations Module 3
- 1.3 Abbreviated course title: Food Processing Unit Op Mod 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 352-M2
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
- 3.2 Learning Outcomes:

Portions of the following:

• Explain the basic terms and principles of food processing

- Understand the concepts of food processing and preservation and their relationship to food safety and quality
- Explain how each type of food processing technique employed to preserve the food.
- Identify the food processing equipment required to make the most common food products.

### 3.3 Content outline:

#### Synthesis of topics including:

- Properties of food processing
- Raw material preparation
- Separation and concentration of food components
- Heat processing
- Pasteurization
- Heat sterilization
- Evaporation and distillation
- Dehydration, smoking, baking, roasting, frying, chilling at modified atmospheres, freezing, freeze drying and freeze concentration
- Fermentation and enzyme technology
- High-pressure processing
- Minimal processing methods
  - 3.4 Student expectations and requirements:
- Tests
- Final exam
- Quizzes
- Term paper
- Homework
  - 3.5 Tentative texts and course materials: Fellows, P.J. (2009). Food Processing Technology Principles and Practice, 3<sup>rd</sup> edition. CRC Press, Boca Raton, FL. ISBN# 9781439808214.

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

### 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences

OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

#### 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 356-M1

1.2 Course title: Systems Design & Op Mod 1

1.3 Abbreviated course title: Systems Design & Operation Module 1
1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 271 or AMS 271-M3

1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

#### 3.2 Learning Outcomes:

Portions of the following:

- Identify key features in setting up a manufacturing organization and its administration
- Utilize standard principles in planning, designing, and locating a plant and the facilities within it
- Make forecasts and plan for capacity in relation to facilities and equipment
- Make decisions under certainty and uncertainty
- Set up production rates based upon product demand and standard data systems

- Support the management team by controlling inventory and scheduling production based upon consumer demand
- Utilize and interpret MRP

### 3.3 Content outline:

#### Introduction to topics including:

- Introduction
- Planning and design
- Product development
- Production charts and systems
- Requirements and selection of machines
- Building, organization, communications, and selected support requirements
- Materials handling
- Facility location
- Inventory control
- Aggregate planning
- MRP and ERP
- JIT and lean Operations
- Scheduling
  - 3.4 Student expectations and requirements:
- Quizzes
- Exams
- Video reports
- Assignments
  - 3.5 Tentative texts and course materials: Operations Management. ( $11^{th}$  edition or earlier through the  $9^{th}$ ). William J. Stevenson, McGraw-Hill Irwin.

### 4. Resources:

- 4.1 Library resources This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 356-M2

1.2 Course title: Systems Design & Operation Module 2

1.3 Abbreviated course title: Systems Design & Op Mod 2

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 356-M1

1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

## 3.2 Learning Outcomes:

- Identify key features in setting up a manufacturing organization and its administration
- Utilize standard principles in planning, designing, and locating a plant and the facilities within it
- Make forecasts and plan for capacity in relation to facilities and equipment
- Make decisions under certainty and uncertainty
- Set up production rates based upon product demand and standard data systems

- Support the management team by controlling inventory and scheduling production based upon consumer demand
- Utilize and interpret MRP

## Application of topics including:

- Introduction
- Planning and design
- Product development
- Production charts and systems
- Requirements and selection of machines
- Building, organization, communications, and selected support requirements
- Materials handling
- Facility location
- Inventory control
- Aggregate planning
- MRP and ERP
- JIT and lean Operations
- Scheduling
  - 3.4 Student expectations and requirements:
- Quizzes
- Exams
- Video reports
- Assignments
  - 3.5 Tentative texts and course materials: Operations Management. (11<sup>th</sup> edition or earlier through the 9<sup>th</sup>). William J. Stevenson, McGraw-Hill Irwin.

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences  OCSE Curriculum Committee  Undergraduate Curriculum Committee	2-7-2014
	3-6-2014
	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 356-M3

1.2 Course title: Systems Design & Operation Module 3

1.3 Abbreviated course title: Systems Design & Op Mod 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 356-M2

1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

#### 3.2 Learning Outcomes:

- Identify key features in setting up a manufacturing organization and its administration
- Utilize standard principles in planning, designing, and locating a plant and the facilities within it
- Make forecasts and plan for capacity in relation to facilities and equipment
- Make decisions under certainty and uncertainty
- Set up production rates based upon product demand and standard data systems

- Support the management team by controlling inventory and scheduling production based upon consumer demand
- Utilize and interpret MRP

### Synthesis of topics including:

- Introduction
- Planning and design
- Product development
- Production charts and systems
- Requirements and selection of machines
- Building, organization, communications, and selected support requirements
- Materials handling
- Facility location
- Inventory control
- Aggregate planning
- MRP and ERP
- JIT and lean Operations
- Scheduling
  - 3.4 Student expectations and requirements:
- Quizzes
- Exams
- Video reports
- Assignments
  - 3.5 Tentative texts and course materials: Operations Management. (11<sup>th</sup> edition or earlier through the 9<sup>th</sup>). William J. Stevenson, McGraw-Hill Irwin.

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

- 5.1 Proposed method of staffing: Current faculty
  - 5.2 Special equipment needed: None
  - 5.3 Expendable materials needed: None
  - **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee  Undergraduate Curriculum Committee	3-6-2014
	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

#### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 370-M1
- 1.2 Course title: Computer Numerical Control Module 1
- 1.3 Abbreviated course title: Computer Numeric Control Mod 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 227 or AMS 227-M3 or consent of instructor.
- 1.7 Course description: Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:
- Demonstrate knowledge of fundamental G & M codes
- Build competencies in print reading
  - 3.3 Content outline:

Introduction to topics including:

• Computer aided machining

- Computer numerical control (CNC)
- Programming and operation
- Computer aided machining (CAM) software
  - 3.4 Student expectations and requirements:
- CAM programming projects
- Participation
- Discussion
- Assigned paper
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Gizelbach, R. A. (2009). CNC Machining, Fundamentals and Applications. Goodheart-Wilcox. Tinley Parks, IL

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

### 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 370-M2

1.2 Course title: Computer Numerical Control Module 2

1.3 Abbreviated course title: Computer Numeric Control Mod 2

1.4

1.5 Credit hours: 1 Variable credit: No

1.6 Grade type: Standard letter grade

1.7 Prerequisites: AMS 370-M1

1.8 Course description: Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers. Laboratory.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis.
  - 3.2 Learning Outcomes:
- Draw and post-process using CAM software
  - 3.3 Content outline:

Application of topics including:

- Computer aided machining
- Computer numerical control (CNC)

- Programming and operation
- Computer aided machining (CAM) software
  - 3.4 Student expectations and requirements:
- CAM programming projects
- Participation
- Discussion
- Assigned paper
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Gizelbach, R. A. (2009). CNC Machining, Fundamentals and Applications. Goodheart-Wilcox. Tinley Parks, IL

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

## 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course

## 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

Proposal Date: January 28, 2014

2.7.2014

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 370-M3
- 1.2 Course title: Computer Numerical Control Module 3
- 1.3 Abbreviated course title: Computer Numeric Control Mod 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 370-M2
- 1.7 Course description: Computer-aided manufacturing techniques including manual and computer-assisted numerical control. Students program and operate CNC machining centers.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:
- Perform set-up of PRZ on machine tools
- Perform code editing and equipment troubleshooting

### 3.3 Content outline:

#### Synthesis of topics including:

- Computer aided machining
- Computer numerical control (CNC)
- Programming and operation

- Computer aided machining (CAM) software
  - 3.4 Student expectations and requirements:
- CAM programming projects
- Participation
- Discussion
- Assigned paper
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Gizelbach, R. A. (2009). CNC Machining, Fundamentals and Applications. Goodheart-Wilcox. Tinley Parks, IL

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
	3-6-2014
OCSE Curriculum Committee	3-27-2014
Undergraduate Curriculum Committee	5 27 2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 371-M1
- 1.2 Course title: Quality Assurance Module 1
- 1.3 Abbreviated course title: Quality Assurance Module 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D and 414. Quality organizations and standards.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

#### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

#### 3.2 Learning Outcomes:

- Discuss the basic principles and methods associated with total quality and performance excellence.
- Describe tools for quality and process improvement, including kaizen, the deming cycle, six sigma AMAIC, lean thinking, and the 7 QC tools.
- Gain an appreciation of the importance of quality control

- Utilize methods of establishing a quality control system
- Demonstrate the use of analytical tools in quality control
- Discuss quality concepts as related to profitability and customer satisfaction
- Discuss the importance of teamwork, employee engagement and leadership in a high-performance environment.

Introduction to topics including:

- Introduction to quality and performance excellence
- History of quality
- Defining quality
- Total quality in organizations (manufacturing, services, health care, education, public sector)
- Quality philosophies
- Frameworks to quality
- Tools and techniques for quality design and control and quality improvement
- Quality in customer-supplier relationships

### 3.4 Student expectations and requirements:

- Quizzes
- Exams
- Participation
- Assignments
- Term project

Tentative texts and course materials: Quality and Performance Excellence by James R. Evans, 7<sup>th</sup> edition, 2014. South-Western Cengage Learning. ISBN-13: 9781133955931(The book is also available as an e-book through CourseSmart)

3.5

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

### 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 371-M2

- 1.2 Course title: Quality Assurance Module 2
- 1.3 Abbreviated course title: Quality Assurance Module 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D and 414. Quality organizations and standards.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

### 3.2 Learning Outcomes:

- Discuss the basic principles and methods associated with total quality and performance excellence.
- Describe tools for quality and process improvement, including kaizen, the deming cycle, six sigma AMAIC, lean thinking, and the 7 QC tools.
- Gain an appreciation of the importance of quality control
- Utilize methods of establishing a quality control system

- Demonstrate the use of analytical tools in quality control
- Discuss quality concepts as related to profitability and customer satisfaction
- Discuss the importance of teamwork, employee engagement and leadership in a high-performance environment.

Application of topics including:

- Introduction to quality and performance excellence
- History of quality
- Defining quality
- Total quality in organizations (manufacturing, services, health care, education, public sector)
- Quality philosophies
- Frameworks to quality
- Tools and techniques for quality design and control and quality improvement

Quality in customer-supplier relationships

- 3.4 Student expectations and requirements:
- Quizzes
- Exams
- Participation
- Assignments
- Term project

Tentative texts and course materials: Quality and Performance Excellence by James R. Evans, 7<sup>th</sup> edition, 2014. South-Western Cengage Learning. ISBN-13: 9781133955931(The book is also available as an e-book through CourseSmart)

3.5

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

#### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
  - 5.2 Special equipment needed: None
  - 5.3 Expendable materials needed: None
  - **5.4** Laboratory materials needed: None

### 6. Proposed term for implementation: Fall 2014

### 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences

2-7-2014

OCSE Curriculum Committee	3-6-2014	
Undergraduate Curriculum Committee	3-27-2014	
University Senate		

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 371-M13

1.2 Course title: Quality Assurance Module 3

1.3 Abbreviated course title: Quality Assurance Module 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: None

1.7 Course description: A study of quality assurance techniques. Application of Statistical Process Control (SPC), acceptance sampling, military standards 105D and 414. Ouality organizations and standards.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

## 3.2 Learning Outcomes:

- Discuss the basic principles and methods associated with total quality and performance excellence.
- Describe tools for quality and process improvement, including kaizen, the deming cycle, six sigma AMAIC, lean thinking, and the 7 QC tools.
- Gain an appreciation of the importance of quality control
- Utilize methods of establishing a quality control system

- Demonstrate the use of analytical tools in quality control
- Discuss quality concepts as related to profitability and customer satisfaction
- Discuss the importance of teamwork, employee engagement and leadership in a high-performance environment.

Synthesis of topics including:

- Introduction to quality and performance excellence
- History of quality
- Defining quality
- Total quality in organizations (manufacturing, services, health care, education, public sector)
- Quality philosophies
- Frameworks to quality
- Tools and techniques for quality design and control and quality improvement
- Quality in customer-supplier relationships
  - 3.4 Student expectations and requirements:
- Ouizzes
- Exams
- Participation
- Assignments
- Term project

Tentative texts and course materials: Quality and Performance Excellence by James R. Evans, 7<sup>th</sup> edition, 2014. South-Western Cengage Learning. ISBN-13: 9781133955931(The book is also available as an e-book through CourseSmart)

3.5

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

#### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

#### 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences 2-7-2014

OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 390-M1

1.2 Course title: Project Management Module 1

1.3 Abbreviated course title: Project Management Module 1

1.4 Credit hours: 1 Variable credit: No

- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: Junior standing or AMS major
- 1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

- Describe basic project management techniques and structures.
- Develop project work breakdown structures and critical path schedules, and allocate resources.
- Analyze data to create cost control models including earned value analysis.
- Identify and develop risk management plans that support project objectives.
- Develop, supervise, and improve a comprehensive project plan.

## Introduction to topics including:

- Organized project structures
- Delivery systems
- Work breakdown analysis
- Benefits of planning
- Leadership responsibilities
- Executive authority
  - 3.4 Student expectations and requirements:
- Homework
- Projects
- Discussion
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Portny, S. E., Mantel, S. J., Meredith, J. R., Shafer, S. M., Sutton, M. M., and Kramer, B. E. (2008). "Wiley Pathways Project Management," John Wiley & Sons., New York, ISBN 978-0-470-11124-6

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014	
OCSE Curriculum Committee  Undergraduate Curriculum Committee	3-6-2014	
	3-27-2014	
University Senate		

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 390-M2

1.2 Course title: Project Management Module 2

1.3 Abbreviated course title: Project Management Module 2

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 390-M1

1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

- Describe basic project management techniques and structures.
- Develop project work breakdown structures and critical path schedules, and allocate resources.
- Analyze data to create cost control models including earned value analysis.
- Identify and develop risk managementplans that support project objectives.
- Develop, supervise, and improve a comprehensive project plan.

## Application of topics including:

- Organized project structures
- Delivery systems
- Work breakdown analysis
- Benefits of planning
- Leadership responsibilities
- Executive authority
  - 3.4 Student expectations and requirements:
- Homework
- Projects
- Discussion
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Portny, S. E., Mantel, S. J., Meredith, J. R., Shafer, S. M., Sutton, M. M., and Kramer, B. E. (2008). "Wiley Pathways Project Management," John Wiley & Sons., New York, ISBN 978-0-470-11124-6

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 390-M3

1.2 Course title: Project Management Module 3

1.3 Abbreviated course title: Project Management Module 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 390-M2

1.7 Course description: 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.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

## 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

- Describe basic project management techniques and structures.
- Develop project work breakdown structures and critical path schedules, and allocate resources.
- Analyze data to create cost control models including earned value analysis.
- Identify and develop risk management plans that support project objectives.
- Develop, supervise, and improve a comprehensive project plan.

## Synthesis of topics including:

- Organized project structures
- Delivery systems
- Work breakdown analysis
- Benefits of planning
- Leadership responsibilities
- Executive authority
  - 3.4 Student expectations and requirements:
- Homework
- Projects
- Discussion
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Portny, S. E., Mantel, S. J., Meredith, J. R., Shafer, S. M., Sutton, M. M., and Kramer, B. E. (2008). "Wiley Pathways Project Management," John Wiley & Sons., New York, ISBN 978-0-470-11124-6

#### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

### 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

## 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee  Undergraduate Curriculum Committee	3-6-2014
	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 394-M1

1.2 Course title: Lean Manufacturing Module 1

1.3 Abbreviated course title: Lean Manufacturing Module 1

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: None

1.7 Course description: Introduction to the production system and the role of inventory, market characterization, aggregate planning, lean manufacturing and the just-in-time philosophy.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

- Apply the basic principles of lean manufacturing system
- Investigate origins and underlying principles of the lean production system
- Develop plant wise lean strategies
- Originate the goals of lean production for specific areas
- Design lean facilities, layout, fixtures for production system
- Solve practical problems of lean production
- Implement cellular manufacturing in industries

## Introduction to topics including:

- The birth of lean production system
- Lean manufacturing and the Toyota production system
- Inventory and variation
- Stability
- The significance of lead time
- Standardized work
- Just-in-time
- Jidoka
- Involvement
- Planning and goals
- Strategies to becoming lean
- How to implement lean
- The culture of lean production
- Cellular manufacturing
  - 3.4 Student expectations and requirements:
- Attendance
- Ouizzes
- Discussions
- Exams
- Final exam
  - 3.5 Tentative texts and course materials: Dennis, P. (2002) Lean Production Simplified, Productivity Press, New York, ISBN 1-56327-262-8

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

# 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

Proposal Date: January 28, 2014

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 394-M2
- 1.2 Course title: Lean Manufacturing Module 2
- 1.3 Abbreviated course title: Lean Manufacturing Module 2
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 394-M1
- 1.7 Course description: Introduction to the production system and the role of inventory, market characterization, aggregate planning, lean manufacturing and the just-in-time philosophy.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

- Apply the basic principles of lean manufacturing system
- Investigate origins and underlying principles of the lean production system
- Develop plant wise lean strategies
- Originate the goals of lean production for specific areas
- Design lean facilities, layout, fixtures for production system
- Solve practical problems of lean production
- Implement cellular manufacturing in industries

## Application of topics including:

- The birth of lean production system
- Lean manufacturing and the Toyota production system
- Inventory and variation
- Stability
- The significance of lead time
- Standardized work
- Just-in-time
- Jidoka
- Involvement
- Planning and goals
- Strategies to becoming lean
- How to implement lean
- The culture of lean production
- Cellular manufacturing
  - 3.4 Student expectations and requirements:
- Attendance
- Ouizzes
- Discussions
- Exams
- Final exam
  - 3.5 Tentative texts and course materials: Dennis, P. (2002) Lean Production Simplified, Productivity Press, New York, ISBN 1-56327-262-8

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

## Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 394-M3
- 1.2 Course title: Lean Manufacturing Module 3
- 1.3 Abbreviated course title: Lean Manufacturing Module 3
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 394-M2
- 1.7 Course description: Introduction to the production system and the role of inventory, market characterization, aggregate planning, lean manufacturing and the just-in-time philosophy.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

- Apply the basic principles of lean manufacturing system
- Investigate origins and underlying principles of the lean production system
- Develop plant wise lean strategies
- Originate the goals of lean production for specific areas
- Design lean facilities, layout, fixtures for production system
- Solve practical problems of lean production
- Implement cellular manufacturing in industries

### Synthesis of topics including:

- The birth of lean production system
- Lean manufacturing and the Toyota production system
- Inventory and variation
- Stability
- The significance of lead time
- Standardized work
- Just-in-time
- Jidoka
- Involvement
- Planning and goals
- Strategies to becoming lean
- How to implement lean
- The culture of lean production
- Cellular manufacturing
  - 3.4 Student expectations and requirements:
- Attendance
- Ouizzes
- Discussions
- Exams
- Final exam
  - 3.5 Tentative texts and course materials: Dennis, P. (2002) Lean Production Simplified, Productivity Press, New York, ISBN 1-56327-262-8

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences  OCSE Curriculum Committee  Undergraduate Curriculum Committee	2-7-2014
	3-6-2014
	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 396-M1
- 1.2 Course title: Introduction to Supply Chain Management Module 1
- 1.3 Abbreviated course title: Intro Supply Chain Mgt Mod 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: None
- 1.7 Course description: Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

# Portions of the following:

- Build an understanding of the operations and supply chain strategy.
- Develop a knowledge base for communicating with operations and logistics personnel.
- Demonstrate both quantitative and qualitative analysis skills, especially those needed for managing supply chains systems.
- Build value stream maps, assess supply chain models and evaluate various operational activities
- Set-up and solve working problems from manufacturing and service supply chain systems

### 3.3 Content outline:

# Introduction to topics including:

- Fundamentals of operations
- Supply chain management practice
- Systematic design, direction, and control of
- The internal production and external supply chain processes
- Methods and techniques for analysis, forecasting, inventory control, scheduling, and facilities planning
  - 3.4 Student expectations and requirements:
- Assigned readings
- Discussion
- Value stream maps
- Assigned problems
- Quizzes
- Exams
  - 3.1 Tentative texts and course materials: Iyer, A. V., Seshadri, S., & Vasher, R. (2009). Toyota supply chain management: A strategic approach to the principles of Toyota's renowned system. New York: McGraw-Hill. ISBN 978-007-161549-5

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturir	<u>ng</u> 2-7-2014
Sciences	2.6.2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 396-M2

- 1.2 Course title: Introduction to Supply Chain Management Module 2
- 1.3 Abbreviated course title: Intro Supply Chain Mgt Mod 2

1.4 Credit hours: 1 Variable credit: No

- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: AMS 396-M1
- 1.7 Course description: Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:
- Build an understanding of the operations and supply chain strategy.
- Develop a knowledge base for communicating with operations and logistics personnel.
- Demonstrate both quantitative and qualitative analysis skills, especially those needed for managing supply chains systems.
- Build value stream maps, assess supply chain models and evaluate various operational activities.

• Set-up and solve working problems from manufacturing and service supply chain systems

### 3.3 Content outline:

# Application of topics including:

- Fundamentals of operations
- Supply chain management practice
- Systematic design, direction, and control of
- The internal production and external supply chain processes
- Methods and techniques for analysis, forecasting, inventory control, scheduling, and facilities planning
  - 3.4 Student expectations and requirements:
- Assigned readings
- Discussion
- Value stream maps
- Assigned problems
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Iyer, A. V., Seshadri, S., & Vasher, R. (2009). Toyota supply chain management: A strategic approach to the principles of Toyota's renowned system. New York: McGraw-Hill. ISBN 978-007-161549-5

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing	2-7-2014
Sciences	
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 396-M3

1.2 Course title: Introduction to Supply Chain Management Module 3

1.3 Abbreviated course title: Intro Supply Chain Mgt Mod 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 396-M2

1.7 Course description: Introduction to supply chain management and risk pooling, logistics network configuration, the value of information, customer value and decision support systems.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:

### Portions of the following:

- Build an understanding of the operations and supply chain strategy.
- Develop a knowledge base for communicating with operations and logistics personnel.
- Demonstrate both quantitative and qualitative analysis skills, especially those needed for managing supply chains systems.
- Build value stream maps, assess supply chain models and evaluate various operational activities.

- Set-up and solve working problems from manufacturing and service supply chain systems
  - 3.3 Content outline:

# Synthesis of topics including:

- Fundamentals of operations
- Supply chain management practice
- Systematic design, direction, and control of
- The internal production and external supply chain processes
- Methods and techniques for analysis, forecasting, inventory control, scheduling, and facilities planning
  - 3.4 Student expectations and requirements:
- Assigned readings
- Discussion
- Value stream maps
- Assigned problems
- Quizzes
- Exams
  - 3.5 Tentative texts and course materials: Iyer, A. V., Seshadri, S., & Vasher, R. (2009). Toyota supply chain management: A strategic approach to the principles of Toyota's renowned system. New York: McGraw-Hill. ISBN 978-007-161549-5

# 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturing Sciences	2-7-2014	
OCSE Curriculum Committee	3-6-2014	

Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 430-M1

1.2 Course title: Technology Management/Team Building Module 1

1.3 Abbreviated course title: Tech Mgt/Team Building Mod 1

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: Junior Standing

1.7 Course description: 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.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

# 3.2 Learning Outcomes:

Portions of the following:

- Develop individual leadership abilities for the supervisor
- Develop communication skills for the supervisor
- Develop motivational skills for the supervisor

- Develop management skills in planning, organization, and controlling
- Explore typical problems faced by supervisor, such as performance appraisals, worker complaints, and discipline

### 3.3 Content outline:

Introduction to topics including:

- Using a team building model of your choosing (from assigned texts or otherwise), explain and apply the selected model in the context of a past personal team development experience
- In your opinion, identify the greatest obstacle to team success. Clearly explain and defend your selection using appropriate supporting research and personal experience. Please offer at least one well-supported suggestion for overcoming the selected obstacle.
- Identify one movie you believe well represents a case for the importance of team building. Provide a summary of the movie selected and then support your selection with research, class texts, discussion, and personal application.
- Identify a team building model separate from those covered in the assigned texts. Share and explain the model, then present your analysis of the strengths or weaknesses of the model.
- Identify one example of the importance or application of team building in scripture. Provide the example and a well-researched discussion of how team building applies in the given context. You may use the bible version of your choosing.
- Identify a current event you believe well represents a case for the importance of team building. Research and explain the event, then defend your selection using application of the team development models discussed in class or in the texts.
  - 3.4 Student expectations and requirements:
- Term paper
- Online interaction
- Mid-term exam
- Final exam

Tentative texts and course materials: Quality and Performance Excellence by James R. Evans, 7<sup>th</sup> edition, 2014. South-Western Cengage Learning. ISBN-13: 9781133955931(The book is also available as an e-book through CourseSmart)

3.5

## 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 430-M2

1.2 Course title: Technology Management/Team Building Module 2

1.3 Abbreviated course title: Tech Mgt/Team Building Mod 2

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 430-M1

1.7 Course description: 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.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

# 3.2 Learning Outcomes:

Portions of the following:

- Develop individual leadership abilities for the supervisor
- Develop communication skills for the supervisor
- Develop motivational skills for the supervisor

- Develop management skills in planning, organization, and controlling
- Explore typical problems faced by supervisor, such as performance appraisals, worker complaints, and discipline

### 3.3 Content outline:

Application of topics including:

- Using a team building model of your choosing (from assigned texts or otherwise), explain and apply the selected model in the context of a past personal team development experience
- In your opinion, identify the greatest obstacle to team success. Clearly explain and defend your selection using appropriate supporting research and personal experience. Please offer at least one well-supported suggestion for overcoming the selected obstacle.
- Identify one movie you believe well represents a case for the importance of team building. Provide a summary of the movie selected and then support your selection with research, class texts, discussion, and personal application.
- Identify a team building model separate from those covered in the assigned texts. Share and explain the model, then present your analysis of the strengths or weaknesses of the model.
- Identify one example of the importance or application of team building in scripture. Provide the example and a well-researched discussion of how team building applies in the given context. You may use the bible version of your choosing.
- Identify a current event you believe well represents a case for the importance of team building. Research and explain the event, then defend your selection using application of the team development models discussed in class or in the texts.
  - 3.4 Student expectations and requirements:
- Term paper
- Online interaction
- Mid-term exam
- Final exam

Tentative texts and course materials: Quality and Performance Excellence by James R. Evans, 7<sup>th</sup> edition, 2014. South-Western Cengage Learning. ISBN-13: 9781133955931(The book is also available as an e-book through CourseSmart)

3.5

# 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

### 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 430-M3

1.2 Course title: Technology Management/Team Building Module 3

1.3 Abbreviated course title: Tech Mgt/Team Building Mod 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 430-M2

1.7 Course description: 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.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods

# 3.2 Learning Outcomes:

Portions of the following:

- Develop individual leadership abilities for the supervisor
- Develop communication skills for the supervisor

- Develop motivational skills for the supervisor
- Develop management skills in planning, organization, and controlling
- Explore typical problems faced by supervisor, such as performance appraisals, worker complaints, and discipline

# 3.3 Content outline:

Synthesis of topics including:

- Using a team building model of your choosing (from assigned texts or otherwise), explain and apply the selected model in the context of a past personal team development experience
- In your opinion, identify the greatest obstacle to team success. Clearly explain and defend your selection using appropriate supporting research and personal experience. Please offer at least one well-supported suggestion for overcoming the selected obstacle.
- Identify one movie you believe well represents a case for the importance of team building. Provide a summary of the movie selected and then support your selection with research, class texts, discussion, and personal application.
- Identify a team building model separate from those covered in the assigned texts. Share and explain the model, then present your analysis of the strengths or weaknesses of the model.
- Identify one example of the importance or application of team building in scripture. Provide the example and a well-researched discussion of how team building applies in the given context. You may use the bible version of your choosing.
- Identify a current event you believe well represents a case for the importance of team building. Research and explain the event, then defend your selection using application of the team development models discussed in class or in the texts.
  - 3.4 Student expectations and requirements:
- Term paper
- Online interaction
- Mid-term exam
- Final exam

Tentative texts and course materials: Quality and Performance Excellence by James R. Evans, 7<sup>th</sup> edition, 2014. South-Western Cengage Learning. ISBN-13: 9781133955931(The book is also available as an e-book through CourseSmart)

3.5

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: AMS 490-M1
- 1.2 Course title: Senior Research Module 1
- 1.3 Abbreviated course title: Senior Research Module 1
- 1.4 Credit hours: 1 Variable credit: No
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites: Completion of a 9/10 cr. hr. specialty area in either Architectural or Manufacturing Sciences.
- 1.7 Course description: Students work on research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for local industry or architectural/construction firms.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

### 3. Discussion of proposed course:

- 3.1 Schedule type: L—Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:
- Develop problem solving skills in the area of their major field of study and emphasis option.
- Gain research and analysis skills related to cost effective systems, products, designs, or projects.

• Demonstrate technical writing and reporting skills as related to the proposal, progress reporting, project manual, and final deliverable product.

### 3.3 Content outline:

Introduction to topics including:

- Bid proposal (qnty takeoffs, labor, equipment, costs, overhead, profit, etc.)
- Construction schedule & update
- Cost tracking (using both 16 & 49 CSI division formats)
- Writing change orders and RFI's
- Ethical questions
- Record keeping of personal hours spent on AMS490 project
  - 3.4 Student expectations and requirements:
- Weekly reports
- Monthly report
- Exam
- Participation
- Presentation
- Final report
  - 3.5 Tentative texts and course materials: Allen, E. & Iano, J. (2007). The Architect's Studio Companion: Rules of Thumb for Preliminary Design, (4thed.). New York: John Wiley & Sons.

Keeler, M. & Burke, B. (2009). Fundamentals Of Integrated Design For Sustainable Building. US Green BuildingCouncil.

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None
- 6. Proposed term for implementation: Fall 2014
- 7. Dates of prior committee approvals:

Department: Architecture & Manufacturin Sciences	ng 2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

# 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 490-M2

1.2 Course title: Senior Research Module 2

1.3 Abbreviated course title: Senior Research Module 2

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 490-M1

1.7 Course description: Students work on research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for local industry or architectural/construction firms.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

3.1 Schedule type: B—Lab: Experimental study in a setting equipped for testing and analysis.

# 3.2 Learning Outcomes:

- Demonstrate successful project management skills from the development of the scope of work to the final deliverable product and all associated project documentation.
- Demonstrate the ability to make effective presentations of solutions to selected problems and projects
- 3.3 Content outline:

Application of topics including:

- Bid proposal (qnty takeoffs, labor, equipment, costs, overhead, profit, etc.)
- Construction schedule & update
- Cost tracking (using both 16 & 49 CSI division formats)
- Writing change orders and RFI's
- Ethical questions
- Record keeping of personal hours spent on AMS490 project
  - 3.4 Student expectations and requirements:
- Weekly reports
- Monthly report
- Exam
- Participation
- Presentation
- Final report
  - 3.5 Tentative texts and course materials: Allen, E. & Iano, J. (2007). The Architect's Studio Companion: Rules of Thumb for Preliminary Design, (4thed.). New York: John Wiley & Sons.

Keeler, M. & Burke, B. (2009). Fundamentals Of Integrated Design For Sustainable Building. US Green BuildingCouncil.

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: Expendables covered by lab fees for course

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-6-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

# Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Create a New Course (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of proposed course:

1.1 Course prefix (subject area) and number: AMS 490-M3

1.2 Course title: Senior Research Module 3

1.3 Abbreviated course title: Senior Research Module 3

1.4 Credit hours: 1 Variable credit: No

1.5 Grade type: Standard letter grade

1.6 Prerequisites: AMS 490-M2

1.7 Course description: Students work on research projects utilizing skills and knowledge from prior courses in the program. Projects performed, when possible, for local industry or architectural/construction firms.

### 2. Rationale:

- 2.1 Reason for developing the proposed course: Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the manufacturing field for site based individuals.
- 2.2 Projected enrollment in the proposed course: 15/20 per semester, based upon the projections/estimates from the council of postsecondary education
- 2.3 Relationship of the proposed course to courses now offered by the department: The existing 3-hour course, AMS 120, is being divided into three separate 1-hour modules, developed only for the Commonwealth College program. This modularization will not affect enrollment in courses currently offered.
- 2.4 Relationship of the proposed course to courses offered in other departments: None
- 2.5 Relationship of the proposed course to courses offered in other institutions: WKU will be the only college in Kentucky using 1-hour modular courses to offer the Advanced Manufacturing degree through the Commonwealth College.

# 3. Discussion of proposed course:

- 3.1 Schedule type: Lecture: Formal presentation of a subject; may include a variety of delivery methods
  - 3.2 Learning Outcomes:
- Apply manufacturing or technology management concepts and principles to real world situations from knowledge acquired through core and concentration courses of the program.

3.3 Content outline:

Synthesis of topics including:

- Bid proposal (qnty takeoffs, labor, equipment, costs, overhead, profit, etc.)
- Construction schedule & update
- Cost tracking (using both 16 & 49 CSI division formats)
- Writing change orders and RFI's
- Ethical questions
- Record keeping of personal hours spent on AMS490 project
  - 3.4 Student expectations and requirements:
- Weekly reports
- Monthly report
- Exam
- Participation
- Presentation
- Final report
  - 3.5 Tentative texts and course materials: Allen, E. & Iano, J. (2007). The Architect's Studio Companion: Rules of Thumb for Preliminary Design, (4thed.). New York: John Wiley & Sons.

Keeler, M. & Burke, B. (2009). Fundamentals Of Integrated Design For Sustainable Building. US Green BuildingCouncil.

### 4. Resources:

- 4.1 Library resources: This course is already offered in a 3-credit hour format, so existing library resources are adequate.
- 4.2 Computer resources: This will be an online class. Computer resources will be the responsibility of individual enrolled.

# 5. Budget implications:

- 5.1 Proposed method of staffing: Current faculty
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- **5.4** Laboratory materials needed: None

# 6. Proposed term for implementation: Fall 2014

Department: Architecture & Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee  Undergraduate Curriculum Committee	3-6-2014
	3-27-2014
University Senate	

Proposal Date: February 11, 2014

# Potter College of Arts & Letters Department of Modern Languages Proposal to Create a New Course (Action Item)

Contact Person: Laura McGee, laura.mcgee@wku.edu, 5-2401

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: MLNG 100
- 1.2 Course title: Language and Culture On-Site
- 1.3 Abbreviated course title: Language and Culture On-Site
- 1.4 Credit hours: 1-3 Variable credit (yes)
- 1.5 Grade type: Standard Letter Grade
- 1.6 Prerequisites/corequisites: None
- 1.7 Course description:

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. May be repeated for a total of 3 credits.

# 2. Rationale:

2.1 Reason for developing the proposed course:

There is a need for a basic introductory Modern Language course that is not language or country specific and that can be used for study abroad purposes. For example, on the KIIS (Summer) Slavic Europe or Istanbul programs, KIIS may offer basic Ukrainian or basic Turkish (lower in level than even 101) combined with an introduction to the culture in English.

- 2.2 Projected enrollment in the proposed course:
  One to three offerings per year in various countries, normally in the summer, with 10-20 students enrolled.
- 2.3 Relationship of the proposed course to courses now offered by the department: Courses such as:

GERM 100 German Language and Culture On-Site

FREN 100 French Language and Culture On-Site

SPAN 100 Spanish Language and Culture On-Site

- and others already exist in the Modern Languages Department. This course meets the need for an introductory course about a language/culture for which no prefix exists at WKU. The course provides a basic foundation in language and culture that prepares students to learn more effectively in the study abroad environment and to interpret both experiences on-site and content of courses in other departments that are specific to the target cultures at the site.
- 2.4 Relationship of the proposed course to courses offered in other departments: This course is a basic introduction to language and culture that will typically be offered in a KIIS program that also offers courses in other disciplines. For

example, MLNG 100 might be offered as a basic introduction to Ukranian language and culture on the KIIS Slavic Europe program. Other courses typically offered in that program are a history course (e.g., HIST 490: Topics in History I: The People, History and Culture of Eastern Europe) or a sociology course (e.g., SOCL 489: Sociology Study Abroad: Genocides in the 20th Century).

2.5 Relationship of the proposed course to courses offered in other institutions:

No other benchmark schools or universities in the Commonwealth offer a course similar to MLNG 100. This course would benefit WKU by providing students with a unique course that no other universities in the area currently offer. It will benefit the faculty and students of the 24 member institutions of KIIS.

# 3. Discussion of proposed course:

3.1 Schedule type:

C—Lecture/Lab, Combination of formal presentation and experimental study.

3.2 Learning Outcomes:

By the end of this course, students will be able to

- Communicate in the target language to get basic, everyday needs met
- Describe and compare cultural values of their host and home cultures
- Navigate the target location effectively
- Manage encounters with locals in a culturally appropriate manner.
- 3.3 Content outline:
  - Personal introductions, travel, public transit, shopping, restaurant vocabulary
  - Target culture values in practice and in intercultural comparison
  - Participation in carefully planned and supervised activities designed to bring the student into contact with people who speak the target languages and with aspects of their culture.
- 3.4 Student expectations and requirements:

  Participation in supervised excursions, and regular class attendance; more than one unexcused absence may result in failure.
- 3.5 Tentative texts and course materials:

  These will vary, depending on the instructor and locale in which the course in taught.

# 4. Resources:

4.1 Library resources: None4.2 Computer resources: None

# 5. Budget implications:

- 5.1 Proposed method of staffing: This course will be taught during the summer term by a qualified instructor with a faculty appointment at WKU or one of the KIIS full member institutions, All KIIS programs are self-funded, and require no budgetary support from WKU.
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- 5.4 Laboratory materials needed: None

**6. Proposed term for implementation:**This course will begin implementation in the summer of 2014.

Modern Languages Department	February 11, 2014
Potter College Curriculum Committee	March 6, 2014
Professional Education Council (if applicable)	N/A
General Education Committee (if applicable)	<u>N/A</u>
Undergraduate Curriculum Committee	03/27/2014
University Senate	

Proposal Date: 4 February 2014

# Potter College of Arts & Letters Department of Modern Languages Proposal to Create a New Course (Action Item)

Contact Person: David DiMeo, david.dimeo@wku.edu, (270) 745-6408

- 1. Identification of proposed course:
  - 1.1 Course prefix (subject area) and number: ARBC 306
  - 1.2 **Course title:** Experiencing Arabic Abroad
  - 1.3 **Abbreviated course title:** Arabic Abroad
  - 1.4 **Credit hours and contact hours:** 1-3, variable credit: yes.
  - 1.5 **Grade Type:** Standard letter grade
  - 1.6 **Prerequisites/corequisites:** Prerequisite: Permission of instructor. Corequisite: Enrollment in supervised language study while abroad.
  - 1.7 **Course description:** 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.

# 2. Rationale:

- 2.1 Reason for developing the proposed course: This course supports the university's mission of being a leading American university with international reach by providing an opportunity for the growing number of students who study Arabic abroad to receive appropriate credit for the work done in courses that do not directly correspond to WKU Arabic courses. Every year, students from the Arabic program participate in intensive language courses during study abroad in Arabic-speaking countries. Wherever possible, if the courses taken abroad correspond to existing WKU Arabic courses, students receive transfer credit for the appropriate course. Many study abroad institutions offer Arabic language courses with content that does not directly correspond to a course offered at WKU. This course gives us flexibility in recognizing students' work in improving their language skills and cultural knowledge during a study abroad program. Individual courses will be assessed for language study and credit will be assigned.
- 2.2 **Projected enrollment in the proposed course:** 1-3 per term. Based on current study abroad participation, we anticipate that 1-3 students will enroll in this course each semester and in the summer/winter.
- 2.3 **Relationship of the proposed course to courses now offered by the department:** There is a similar course in each of the Spanish, German, French and Chinese programs in the department. This course will enable the Arabic program to give students credit for language and cultural study done abroad in an

approved program. The proposed course will count among the electives for the major or minor with the prior approval of the Modern Language program.

# 2.4 **Relationship of the proposed course to courses offered in other departments:** This course complements existing Arabic courses at WKU and will enhance student participation in those courses. Additionally, the study abroad experience provides unmatched exposure to Arab culture, and this course will complement courses such as RELS 306 (Islam), RELS 311 (The Qur'an), RELS 320 (Religions of the Middle East). GEOG 467 (Geography of the Middle East). HIST

courses such as RELS 306 (Islam), RELS 311 (The Qur'an), RELS 320 (Religions of the Middle East), GEOG 467 (Geography of the Middle East), HIST 462 (History of the Middle East), and PS 365 (Government and Politics of the Middle East). A student who has taken courses such as these will be able to deepen his or her knowledge of the discipline through academic study abroad.

2.5 **Relationship of the proposed course to courses offered in other institutions:** The University of Kentucky offers Arabic courses through the fourth year as part of an Islamic Studies minor, including two courses in Independent Study in Arabic (AIS 395, 495). The University of Louisville offers Arabic through the third year. The University of Louisville has a repeatable study abroad course, Arabic 200, which awards up to 15 credit hours for courses taken abroad.

# 3. Discussion of proposed course:

- 3.1 **Schedule Type:** L
- 3.2 **Learning Outcomes:** 
  - The student will improve his or her language proficiency through a language course taught in an Arabic-speaking host country.
  - He or she will also gain first-hand knowledge of the foreign culture and will reflect upon the knowledge gained.

# 3.3 **Content outline:**

- Regular, evaluated language instruction in a venue approved by the WKU Modern Language Department.
- Participation in a series of assigned activities designed to expose the student to various aspects of the foreign society and culture.
- Routine contact with and guidance from a WKU Arabic faculty member while abroad to ensure the program of study adheres to the intent and standards of the WKU Arabic program.

# 3.4 Student expectations and requirements:

Student must attend language instruction regularly while abroad, must engage in the equivalent of at least 2-3 hours of language instruction per week, must engage in the cultural activities agreed upon with the supervising Modern Language faculty member before their departure, and must present the portfolio for evaluation upon return to WKU. The number of required cultural activities and the number and length of reflective essays required will vary from one program to the next, but will be appropriate to the hours awarded for this course and for upper division credit. The supervising Modern Language faculty will assign the cultural activities (visits to markets, museums, home stays, interviews, etc.) before the

student's departure. The nature and scope of the portfolio contents will also be discussed in advance. Upon the student's return to WKU, the faculty member will assign a grade dependent on the evaluation of the student's performance in the language course abroad and on the portfolio that the student presents.

# 3.5 Tentative texts and course materials:

These will vary, depending on the site of the study abroad experience and on the program of study in which the student is engaged.

# 4. Resources:

- 4.1 **Library resources:** adequate
- 4.2 **Computer resources:** adequate

# 5. Budget implications:

- Proposed method of staffing: A full-time Arabic instructor will establish the program of cultural experiences and evaluate the student's portfolio upon his/her return to WKU. The faculty load credit will be consistent with Potter College and MLD policies on independent study supervision.
- 5.2 **Special equipment needed:** None
- 5.3 **Expendable materials needed:** None
- 5.4 **Laboratory materials needed:** None
- **6. Proposed term for implementation:** Fall 2014
- 7. Dates of prior committee approvals:

Modern Languages Department/Division:	<u>February 11, 2014</u>
PCAL Curriculum Committee	March 6, 2014
Undergraduate Curriculum Committee	03/27/2014
University Senate	

**Attachments: Bibliography and Library Resource Form** 

Proposal Date: February 4, 2014

# Potter College of Arts & Letters Department of Modern Languages Proposal to Create a New Course (Action Item)

Contact Person: David DiMeo, david.dimeo@wku.edu, (270) 745-6408

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: ARBC 389
- 1.2 **Course title**: Internship in Arabic
- 1.3 **Abbreviated course title**: Internship in Arabic
- 1.4 **Credit hours**: 1-3 Variable credit: yes
- 1.5 **Grade type**: standard letter grade
- 1.6 **Prerequisites/corequisites:** Permission of the instructor.
- 1.7 **Course description**: Supervised work using Arabic in a professional setting.

  Only open to Arabic majors or minors. Can be repeated for up to six credit hours.

### 2. Rationale:

- 2.1 **Reason for developing the proposed course**: This course will support students who choose to gain work experience using their Arabic skills. An increasing number of regional companies seek employees who bring knowledge of a foreign language as one of their job skills. The proposed course will encourage students to seek language-related work experience while still a student, and will make graduates of the Arabic program more competitive on the job market.
- 2.2 **Projected enrollment in the proposed course**: Based on comparison with similar programs in other language programs in the department, we anticipate 1-2 students per year.
- 2.3 **Relationship of the proposed course to courses now offered by the department**: Similar internship courses are available in French, German and Spanish. This course supports other Arabic courses by encouraging students to apply the language and culture skills gained in those courses to their professional development.
- 2.4 Relationship of the proposed course to courses offered in other departments: Internship (cooperative education) courses are offered in departments such as Agriculture, Engineering, Communication, Computer Science and Folk Studies. The proposed course is different from these in that the student will participate in an internship experience that requires the use of his/her foreign language skills.
- 2.5 **Relationship of the proposed course to courses offered in other institutions**: Credit for a supervised internship in a variety of disciplines is offered at the University of Kentucky, Murray State University, Morehead University, Eastern Kentucky University, Northern Kentucky University and University of Louisville.

# 3. Discussion of proposed course:

3.1 **Schedule type**: N

# 3.2 **Learning Outcomes**:

- Students will gain a real sense of how their Arabic language skills can be valuable to employers.
- Students will learn to apply their communication skills in professionally demanding environments.
- Students will have a better appreciation of career opportunities for Arabic speakers.

# 3.3 **Content outline**:

- Under the direction of a Modern Languages faculty member and supervisor from a cooperating organization, the student will apply his/her knowledge of Arabic to practical assignments of value to the employer.
- The student will compose an essay in Arabic on their application of the language and culture to their work experience.
- 3.4 **Student expectations and requirements**: Upon applying to enroll in an internship course in Arabic, the student will review the policies and regulations for cooperative education from the Career Services Center. The student will complete a learning plan with the approval of the Modern Languages faculty member and a supervisor from the cooperating organization. The supervisor from the cooperating organization will evaluate the student's work performance. At the end of the work assignment, the student will submit a final report from the supervisor and an essay of the student's own composition about their application of language and culture expertise to their work. The faculty member will assign a grade based on the supervisor's report and the student's essay. The internship will consist of at least 50 hours of work for each credit hour.
- 3.5 **Tentative texts and course materials**: Will vary based on the work experience.

# 4. Resources:

- 4.1 **Library resources**: Adequate.
- 4.2 **Computer resources**: Adequate.

# 5. Budget implications:

5.1 Proposed method of staffing: A Modern Languages faculty member will oversee and evaluate the student's internship.

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- 5.2 Special equipment needed: None.
- 5.3 Expendable materials needed: None.
- 5.4 Laboratory materials needed: None.
- **6.** Proposed term for implementation: Fall 2014.

Department of Modern Languages	reducity 11, 2014	
Potter College Curriculum Committee	March 6, 2014	
Professional Education Council (if applicable)	N/A	

General Education Committee (if applicable)	N/A
Undergraduate Curriculum Committee	03/27/2014
University Senate	

**Attachments: Bibliography and Library Resource Form** 

Proposal Date: 4 Feb 2014

# Potter College of Arts & Letters Department of Modern Languages Proposal to Create a New Course (Action Item)

Contact Person: David DiMeo, david.dimeo@wku.edu, (270) 745-6408

# 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: ARBC 499
- 1.2 **Course title**: Advanced Studies in Arabic
- 1.3 **Abbreviated course title**: Advanced Studies in Arabic
- 1.4 **Credit hours**: 1-4 Variable credit: yes
- 1.5 **Grade type**: standard letter grade
- 1.6 **Prerequisites/corequisites**: Permission of the instructor.
- 1.7 **Course description**: 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. May be repeated for a maximum of six hours of credit.

### 2. Rationale:

- 2.1 **Reason for developing the proposed course**: This course will provide an opportunity for students at the advanced level of Arabic study to pursue research on specific issues and topics not covered in depth in regular Arabic courses. The course will encourage students to conduct research during study abroad using resources not available at home.
- 2.2 **Projected enrollment in the proposed course**: Based on comparison with similar programs in other languages, we anticipate 1-2 students per year.
- 2.3 **Relationship of the proposed course to courses now offered by the department**: Similar courses are available in French, German and Spanish. This course supports other Arabic courses by encouraging students to build upon work done in upper level Arabic courses.
- 2.4 **Relationship of the proposed course to courses offered in other departments**: Similar independent and directed studies courses exist in other departments, such as English, History, and Gender and Women's Studies (all with the 499 designation).
- 2.5 Relationship of the proposed course to courses offered in other institutions: The University of Kentucky has an independent study in Arabic course (AIS 495). Among benchmark universities, James Madison University, the only benchmark with an Arabic major, has a Special Studies course (ARAB 490) that allows for independent study.

# 3. Discussion of proposed course:

- 3.1 **Schedule type**: I
- 3.2 **Learning Outcomes**:

- Students will develop/enhance research skills by using primary sources in Arabic.
- Students will enhance their Arabic writing skills by producing written academic papers using Arabic.
- Students will have an in-depth knowledge of a specific issue or topic in Arabic culture, literature or language.

### **Content outline:** 3.3

- Under the direction of a Modern Languages faculty member, the student will develop a research proposal for a project investigating a significant issue in Arabic culture, language or literature.
- The student will conduct research using primary sources in Arabic.
- The student will provide a weekly update to the supervising instructor and conduct periodic face-to-face updates and discussions.
- the student will be required to produce a final research product, either a single paper or report, or several shorter essays, a website or video product, or a combination of these based on prior agreement with the faculty member.
- Student expectations and requirements: Students will conduct research using 3.4 primary sources in Arabic. Students will provide at least weekly meaningful updates on their progress and questions. Students will produce either a single or multiple smaller products of their research that will be of value to others studying in the field.
- 3.5 Tentative texts and course materials: Will vary based on the research project but must include primary source materials in Arabic.

# **Resources:**

- 4.1 Library resources: Adequate.
- 4.2 Computer resources: Adequate.

# **Budget implications:**

5.1 Proposed method of staffing: A Modern Languages faculty member will oversee and evaluate the student's work.

February 11, 2014

- Special equipment needed: None. 5.2
- 5.3 Expendable materials needed: None.
- Laboratory materials needed: None. 5.4

# **6. Proposed term for implementation:** Fall 2014.

Department of Modern Languages	February 11, 2014
Potter College Curriculum Committee	March 6, 2104
Professional Education Council (if applicable)	<u>N/A</u>
General Education Committee (if applicable)	<u>N/A</u>
Undergraduate Curriculum Committee	03/27/2014

University Senate	

Proposal Date: February 15, 2014

#### Potter College of Arts & Letters Department of Sociology Proposal to Create a New Course (Action Item)

Contact Person: Carrie Trojan, carrie.trojan@wku.edu, 270-745-2645

#### 1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: CRIM 489
- 1.2 Course title: Criminology Study Abroad
- 1.3 Abbreviated course title: Criminology Study Abroad. (Actual title will vary according to the course topic. For example, Crim Study Abroad: Penology.)
- 1.4 Credit hours: 1.00 6.00 Variable credit: yes
- 1.5 Grade type: Standard letter grade
- 1.6 Prerequisites/corequisites: Consent of instructor
- 1.7 Course description: Study of comparative criminology, criminal justice systems and topics in international locations. May be repeated for up to six hours of credit.

#### 2. Rationale:

- 2.1 Reason for developing the proposed course: The Sociology department has offered students the ability to participate in faculty-led study abroad courses that apply as credit towards the sociology major. Beginning in the Fall of 2014, the department will begin offering a major in criminology and the proposed course will give students within that major the same opportunity to learn about various issues in criminology and criminal justice systems within an international context and earn credit towards their major for the experience.
- 2.2 Projected enrollment in the proposed course: Enrollment will vary across courses from 10 to 24.
- 2.3 Relationship of the proposed course to courses now offered by the department: The Sociology Department has had a study abroad course (SOCL 489) since 2008. The proposed course will be listed on student transcripts using the newly created CRIM prefix, which will better reflect student experience within the major.
- 2.4 Relationship of the proposed course to courses offered in other departments: Many departments offer stand-alone study abroad courses for their programs. Though not an exhaustive list, the following are some of the study abroad courses offered by various departments: ASL 303 (International Deaf Studies), CD 496 (International Speech Pathology), CHIN 100 (Chinese Language and Culture On-Site), EXS 485 (Exercise Science Study Abroad), FREN 100 (French Language and Culture On-Site), GER 100 (German Language and Culture On-Site), IDST 350 (Interdisciplinary Studies Study Abroad), and RELS 399 (Study Abroad). These courses allow students to expand their education into an international context in a way that better serves their majors and the course proposed here will serve that same function.
- 2.5 Relationship of the proposed course to courses offered in other institutions: Due to the increased emphasis on globalization in modern society it is common for

universities to offer study abroad courses to their students. While not an exhaustive list, the following universities offer a study abroad option for their criminology and/or criminal justice majors: Florida State University, Penn State, University of Missouri-St. Louis, University of California-Irvine, Arizona State University, University of Maryland, Central Connecticut State University, Georgia State University, University of Nebraska-Lincoln, and Ball State University.

#### 3. Discussion of proposed course:

- 3.1 Schedule type: L-Lecture
- 3.2 Learning Outcomes: This course will provide students with the opportunity to experience and learn about criminology and criminal justice topics in international locations. The central objective of this course will be to provide students with an understanding of criminological issues within a global society.
- 3.3 Content outline: Course outline and topics covered will vary by instructor and course topic.
- 3.4 Student expectations and requirements: Course requirements will vary by instructor and course topic.
- 3.5 Tentative texts and course materials: Texts and course materials required will be dependent upon the instructor and course topic.

#### 4. Resources:

- 4.1 Library resources: No new library resources are required.
- 4.2 Computer resources: No new computer resources are required.

#### 5. Budget implications:

- 5.1 Proposed method of staffing: This course will be taught by current faculty primarily during summer and winter terms, therefore current staffing is sufficient to support this course.
- 5.2 Special equipment needed: None
- 5.3 Expendable materials needed: None
- 5.4 Laboratory materials needed: None

#### **6. Proposed term for implementation:** Fall 2014

#### 7. Dates of prior committee approvals:

Department of Sociology	February 15, 2014
Potter College Curriculum Committee	March 6, 2104
Professional Education Council (if applicable)	N/A
General Education Committee (if applicable)	<u>N/A</u>
Undergraduate Curriculum Committee	03/27/2014
University Senate	

Proposal Date: 2/17/14

# College of Health & Human Services Allied Health Proposal to Revise A Program (Action Item)

Contact Person: Lynn Austin, <a href="mailto:lynn.austin@wku.edu">lynn.austin@wku.edu</a>, 5-3827

#### 1. Identification of program:

1.1 Current program reference number: 2261.2 Current program title: Dental Hygiene

1.3 Credit hours: 50

#### 2. Identification of the proposed program changes:

• Reflect course number revisions for

o DH 122 to DH 222

o DH 111 to DH 270

o DH 112 to DH 212

o DH 121 to DH 271

o DH 130 to DH 230

o DH 321 to DH 371

• Delete DH 211

• Add DH 370

	PROPOSED CURRICULUM ASSOCIATE'S	
	DEGREE (226)	
2	<b>DH 222</b> Preventive Dental Hygiene Care	2
3	DH 270 Pre-Clinical Dental Hyg.	3
3	DH 212 Oral Anatomy	3
2	DH 201 Dental Radiology I	2
	DH 210 Dental Materials &	
2	Expanded Functions 1	2
3	DH 271 Clinical Dental Hygiene I	3
	DH 230 Oral Histology &	
3	Embryology	3
3	DH 204 Periodontics	3
3	DH 206 Dental Pharmacology	3
	DH 226 Dental Materials &	
2	Expanded Functions II	2
	DH 309 Pain Control in Dental	
4	Hygiene	4
4	DH 370 Clinical Dental Hygiene II	4
2	DH 302 Dental Radiology II	2
4	DH 303 Community Dental Health	4
	3 3 2 2 3 3 3 3 2 4 4 4 2	DEGREE (226)  DH 222 Preventive Dental Hygiene Care  DH 270 Pre-Clinical Dental Hyg.  DH 212 Oral Anatomy  DH 201 Dental Radiology I  DH 210 Dental Materials &  Expanded Functions 1  DH 230 Oral Histology &  Embryology  DH 204 Periodontics  DH 206 Dental Materials &  Expanded Functions II  DH 309 Pain Control in Dental  Hygiene  DH 370 Clinical Dental Hygiene II  DH 302 Dental Radiology II

TOTAL PROGRAM HOURS	50	TOTAL PROGRAM HOURS	50
Ethics	2	Ethics	2
DH 324 Practice Managements &		DH 324 Practice Managements &	
DH 321-Clinical Dental Hygiene III	5	DH 371 Clinical Dental Hygiene III	5
DH 307 General & Oral Pathology	3	DH 307 General & Oral Pathology	3

The additional required courses for the major are not changing. These courses are: ENG 100, PSY 100, SOCL 100, COMM 145, BIOL 131, CHEM 109, HMD 211, BIOL 207 and BIOL 208.

#### 4. Rationale for the proposed program change:

- Course revisions reflect more appropriate (newly proposed) course numbers
- Addition of a new course DH 370 and deletion of existing course DH 211: This new course (DH 370) was developed to better prepare students for modifications in accreditation standards. The new course has added competency exams which test students at a higher taxonomic level than the previous course. The course can only be taken by those students with junior or senior standing. A 300 level course will more appropriately set student expectations regarding the breadth, depth, and rigor of this course.

#### **5. Proposed term for implementation:** Fall 2014

#### **6.** Dates of prior committee approvals:

Allied Health Curriculum Committee	2-19-14	
CHHS Undergraduate Curriculum Committee	3/7/2014	
	03/27/2014	
Undergraduate Curriculum Committee		
University Senate		

Proposal Date: 2/17/14

# College of Health and Human Services Family and Consumer Sciences Proposal to Revise a Program (Action Item)

Contact Person: D'Lee Babb, 270-745-6943, dlee.babb@wku.edu

#### 1. Identification of program:

1.1 Current program reference number: 249

1.2 Current program title: Early Childhood Education Associate Degree

1.3 Credit hours: 67

#### 2. Identification of the proposed program changes:

- Elimination of SOCL 220 Marriage and Family
- Elimination of SFTY 171 Safety and First Aid
- Elimination of COMM 161 Business and Professional Speaking
- Elimination of MATH 116 Fundamentals of College Algebra
- Elimination of HIST 119 Western Civilization to 1648 OR HIST 120 Western Civilization since 1648
- Elimination of General Education Category D
- Addition of PH 100 Personal Health

249 Early Childhood Education Associate Degree			
Current Courses	Hours	Proposed Courses	Hours
HMD 211 Human Nutrition	3	HMD 211 Human Nutrition	3
FACS 180 Foundations in FCS	3	FACS 180 Foundations in FCS	3
FACS 191 Child Development	3	FACS 191 Child Development	3
FACS 192 Working with Young Children	3	FACS 192 Working with Young Children	3
& Families		& Families	
FACS 198 Guidance & Prob. Solving	3	FACS 198 Guidance & Prob. Solving	3
Approaches for Young Children		Approaches for Young Children	
FACS 292 Diversity in Early Childhood	3	FACS 292 Diversity in Early Childhood	3
Programs		Programs	
FACS 294 Assessment of Young Children	3	FACS 294 Assessment of Young Children	3
FACS 295 Curriculum Development for	3	FACS 295 Curriculum Development for	3
Infants/ Toddlers		Infants/ Toddlers	
FACS 296 Curriculum Development for	3	FACS 296 Curriculum Development for	3
Pre/Kdg Children		Pre/Kdg Children	
FACS 297 Family, Community and Early	3	FACS 297 Family, Community and Early	3
Childhood Programs		Childhood Programs	
FACS 299 Administration of Early	3	FACS 299 Administration of Early	3

Childhood Programs		Childhood Programs	
FACS 311 Family Relations OR	3	FACS 311 Family Relations	3
SOCL 220 Marriage and Family			
FACS 313 Practicum	3	FACS 313 Practicum	3
SFTY 171 Safety and First Aid	1		
SWRK 101 Foundations of Human	3	SWRK 101 Foundations of Human	3
Service		Service	
LME 318 Children's Literature	3	LME 318 Children's Literature	3
COMM 145 Fundamentals of Public	3	COMM 145 Fundamentals of Public	3
Speaking <del>OR</del>		Speaking	
COMM 161 Business and Professional			
Speaking			
PSY 100 Introduction to Psychology	3	PSY 100 Introduction to Psychology	3
ENG 100 Freshman English	3	ENG 100 Freshman English	3
ENG 200 Introduction to Literature	3	ENG 200 Introduction to Literature	3
MATH 109 General Mathematics OR	3	MATH 109 General Mathematics	3
MATH 116 Fundamentals of College			
Algebra			
HIST 119 Western Civilization to 1648 OR	3		
HIST 120 Western Civilization since 1648			
GEN ED. ELEC General Education	3		
Category D			
		PH 100 Personal Health	3
Total	<del>67</del>	Total	63

- It is a strong desire that students remain in the department to take their Family course. If students transfer to Early Childhood Education having completed SOCL 220 Marriage and Family, a substitution can be made for FACS 311 Family Relations.
- SFTY 171 is not offered online. The Early Childhood Education Associate Degree is a degree designed to be completed entirely online. Therefore, the needs of some students are no longer being met. First aid principles are incorporated into the other courses and additionally, most of the students completing this degree are currently teaching in childcare centers requiring First Aid certification and do not need this course content.
- COMM 161 is no longer going to be offered.
- MATH 116 is not necessary for the Early Childhood Education Associate Degree.
- HIST 119 and HIST 120 are not required for the newly proposed associate degree general
  education at WKU. ENG 200 meets the Arts and Humanities (AH) requirements for the newly
  proposed associate degree general education at WKU.
- The Quantitative Reasoning (QR) or Natural and Physical Sciences (NS) new associate degree general education requirement is met with MATH 109.
- PH 100 is being added to the program because it is beneficial for the students in the Early Childhood Education Associate Degree program because of the nature of their desired profession.

2. I Toposcu term for implementation, ran 201	<b>5.</b>	<b>Proposed term for implementation: </b> 1	Fall 201	4
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#### **6.** Dates of prior committee approvals:

FACS Department	February 17, 2014
CHHS Curriculum Committee	3/7/2014
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

Proposal Date: January 30, 2014

# College of Health and Human Services Department of Kinesiology, Recreation and Sport Proposal to Revise A Program (Action Item)

Contact Person: Tricia Jordan tricia.jordan@wku.edu, 745-6042

#### 1. Identification of program:

1.1 Current program reference number: 422

1.2 Current program title: Nonprofit Administration

1.3 Credit hours: 22-25

#### 2. Identification of the proposed program changes:

• changing credit hour range: from 22-25 hours to 21-24 hours

• deleting required course: REC 494

• <u>modify required courses</u> adding PS 440 as an additional option in the required courses

• modify policy increase maximum hours allowed in one prefix to 15

• <u>changing catalog description</u>: The minor in Nonprofit Administration (reference number 422) 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 or PS 440), (ACCT 200 or REC 402 or SPM 402), REC 460, and REC 496 (150-300 hours of internship experience for 3-6 credit hours). No more than 15 hours from any prefix may be used to fulfill the minor requirements. Some courses may have prerequisites.

Current Program	Hrs	Revised Program	Hrs
Nonprofit Administration		Nonprofit Administration	
Required Courses		Required Courses	
REC 220 Understanding the Nonprofit Sector	3	REC 220 Understanding the Nonprofit Sector	3
MGT 333 Management of Nonprofit Orgs	3	MGT 333 Management of Nonprofit Orgs or	3
		PS 440 Public Administration	
ACCT 200 Accounting-Financial or		ACCT 200 Accounting-Financial or	3
REC 402 Fiscal Practices in Recreation or	3	REC 402 Fiscal Practices in Recreation or	3
SPM 402 Fiscal Practices in Recreation		SPM 402 Fiscal Practices in Recreation	
REC 460 Grant Writing for Nonprofit Orgs	3	REC 460 Grant Writing for Nonprofit Orgs	3
REC 494 Nonprofit Administration Conference	1		
REC 496 Nonprofit Internship	3-6	REC 496 Nonprofit Internship	3-6
TOTAL REQUIRED	<del>16-19</del>	TOTAL REQUIRED	15-18

Current Program	Hrs	Revised Program	Hrs
Elective Courses		Elective Courses	
Students will select two courses from the		Students will select two courses from the	
approved list or other courses as approved by		approved list or other courses as approved by	
the program coordinator.		the program coordinator.	
ACCT 420 Government & Not-for-profit Acct	3	ACCT 420 Government & Not-for-profit Acct	3
BA 110 Intro to Business & Entrepreneurship	3	BA 110 Intro to Business & Entrepreneurship	3
CFS 271 Tourism Planning and Development	3	CFS 271 Tourism Planning and Development	3
CFS 375 Meeting & Convention Management	3	CFS 375 Meeting & Convention Management	3
COMM 240 Critical Listening	3	COMM 240 Critical Listening	3
COMM 345 Advanced Public Speaking	3	COMM 345 Advanced Public Speaking	3
COMM 348 Interpersonal Communication	3	COMM 348 Interpersonal Communication	3
COMM 349 Small Group Communication	3	COMM 349 Small Group Communication	3
COMM 362 Organizational Communication	3	COMM 362 Organizational Communication	3
COMM 460 Organizational Interviewing	3	COMM 460 Organizational Interviewing	3
COMM 463 Intercultural Communication	3	COMM 463 Intercultural Communication	3
ECON 202 Principles of Economics-Micro	3	ECON 202 Principles of Economics-Micro	3
ENG 301 Argument & Analysis in Written		ENG 301 Argument & Analysis in Written	
Disc.	3	Disc.	3
ENG 306 Business Writing	3	ENG 306 Business Writing	3
ENG 307 Technical Writing	3	ENG 307 Technical Writing	3
ENG 415 Writing and Technology	3	ENG 415 Writing and Technology	3
FIN 330 Principles of Financial Management	3	FIN 330 Principles of Financial Management	3
GERO 100 Intro to the Aging Experience	3	GERO 100 Intro to the Aging Experience	3
GERO 495 Topics in Aging	3	GERO 495 Topics in Aging	3
HMD 271 Tourism Planning & Development	3	HMD 271 Tourism Planning & Development	3
HMD 375 Meeting Convention Management	3	HMD 375 Meeting Convention Management	3
ICSR 300 Public Problem Solving	3	ICSR 300 Public Problem Solving	3
ICSR 301 Seminar in Social Responsibility	1	ICSR 301 Seminar in Social Responsibility	1
LEAD 200 Introduction to Leadership Studies	3	LEAD 200 Introduction to Leadership Studies	3
LEAD 325 Leading Change	3	LEAD 325 Leading Change	3
LEAD 330 Leadership Ethics & Decision		LEAD 330 Leadership Ethics & Decision	
Making	3	Making	3
LEAD 395 Contemporary Leadership Issues	3	LEAD 395 Contemporary Leadership Issues	3
MGT 210 Organization and Management	3	MGT 210 Organization and Management	3
MGT 311 Human Resources Management	3	MGT 311 Human Resources Management	3
MKT 220 Basic Marketing Concepts	3	MKT 220 Basic Marketing Concepts	3
PERF 423 Performing Arts Management	3	PERF 423 Performing Arts Management	3
PHIL 320 Ethics	3	PHIL 320 Ethics	3
PHIL 323 Social Ethics	3	PHIL 323 Social Ethics	3
RELS 323 Social Ethics	3	RELS 323 Social Ethics	3
PS 250 International Politics	3	PS 250 International Politics	3
PS 338 Government and Ethics	3	PS 338 Government and Ethics	3

PS 440 Elements of Public Administration	3	PS 440 Elements of Public Administration	3
PSY 199 Introduction to Developmental		PSY 199 Introduction to Developmental	
Psychology	3	Psychology	3
PSY 321 Child Psychology	3	PSY 321 Child Psychology	3
PSY 350 Social Psychology	3	PSY 350 Social Psychology	3
PSY 422 Adolescent Psychology	3	PSY 422 Adolescent Psychology	3
PSY 442 Begin Skills in Psychological		PSY 442 Begin Skills in Psychological	
Interviewing	3	Interviewing	3
REC 302 Recreation Leadership	3	REC 302 Recreation Leadership	3
REC 306 Program Planning	3	REC 306 Program Planning	3
REC 328 Inclusive Recreation	3	REC 328 Inclusive Recreation	3
REC 404 Facility Management	3	REC 404 Facility Management	3
REC 424 Camp and Conference Center Admin.	3	REC 424 Camp and Conference Center Admin.	3
SOCL 100 Introduction to Sociology	3	SOCL 100 Introduction to Sociology	3
SOCL 210 Interaction Self in Society	3	SOCL 210 Interaction Self in Society	3
SOCL 240 Contemporary Social Problems	3	SOCL 240 Contemporary Social Problems	3
SOCL 300 Using Statistics in Sociology	3	SOCL 300 Using Statistics in Sociology	3
SOCL 360 Rural and Urban Communities	3	SOCL 360 Rural and Urban Communities	3
SOCL 362 Race, Class, and Gender	3	SOCL 362 Race, Class, and Gender	3
SOCL 375 Diversity in American Society	3	SOCL 375 Diversity in American Society	3
SOCL 410 Socialization: Changes Through Life	3	SOCL 410 Socialization: Changes Through Life	3
SPM 200 Introduction to Sport Management	3	SPM 200 Introduction to Sport Management	3
SPM 452 Sport Leadership & Management	3	SPM 452 Sport Leadership & Management	3
SWRK 101 Foundations of Human Services	3	SWRK 101 Foundations of Human Services	3
SWRK 205 Introduction to Social work	3	SWRK 205 Introduction to Social work	3
SWRK 330 Human Behavior in Social		SWRK 330 Human Behavior in Social	
Environment I	3	Environment I	3
SWRK 344 Social Work Statistics & Data		SWRK 344 Social Work Statistics & Data	
Analysis	3	Analysis	3
SWRK 379 Intro to Social Work Comm. Skills	3	SWRK 379 Intro to Social Work Comm. Skills	3
TOTAL ELECTIVE HOURS	6	TOTAL ELECTIVE HOURS	6
TOTAL MINOR HOURS	22-25		21-24

#### Catalog description

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 22-25 hours including the following required courses: REC 220, MGT 333, (ACCT 200 or REC 402 or SPM 402), REC 460, REC 494, 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, 375, COMM 240, 345,348,349,362,460,463, ECON 202, ENG 301, 306, 307, 415, FIN 330, GERO 100, 495, ICSR 300, 301, LEAD 200, 325, 330, 395, MGT 210, 311, MKT 220, PERF 423, PHIL 320,323, RELS 323, PS 250, 338, 440, PSY 199, 321, 350, 422,442, REC 302, 306, 328, 404, 424, SOCL 100, 210, 240, 300, 360, 362,375, 410, SPM 200, 452, SWRK 101, 205, 330, 344, 379. No more than 13 hours from any prefix may be used to fulfill the minor requirements. Some courses have prerequisites. Students who complete the minor, have at least 300 hours of nonprofit internship experiences, and participate in the program's student association are eligible (but not required) to apply for the Nonprofit Leadership Alliance Certified Nonprofit Professional (CNP) credential and the Nonprofit Management and Leadership Certification. Visit www.wku.edu/nonprofit for more information. Students are encouraged to meet with a minor advisor to help plan

course schedules.

#### Catalog description

The minor in Nonprofit Administration (reference number 422) 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 or PS 440), (ACCT 200 or REC 402 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, 375, COMM 240, 345, 348, 349, 362, 460, 463, ECON 202, ENG 301, 306, 307, 415, FIN 330, GERO 100, 495, ICSR 300, 301, LEAD 200, 325, 330, 395, MGT 210, 311, MKT 220, PERF 423, PHIL 320,323, RELS 323, PS 250, 338, 440, PSY 199, 321, 350, 422, 442, REC 302, 306, 328, 404, 424, SOCL 100, 210, 240, 300, 360, 362,375, 410, SPM 200, 452, SWRK 101, 205, 330, 344, 379. No more than 15 hours from any prefix may be used to fulfill the minor requirements. Some courses may have prerequisites. Visit <u>www.wku.edu/nonprofit</u> for more information.

- As WKU is no longer affiliated with the Nonprofit Leadership Alliance our students will not
  have access to their certificate process. This eliminates the need and feasibility of attending
  the national nonprofit conference (REC 494) and referring to the NLA and certification in our
  catalog and other materials;
- PS 440 is being added to provide another option for our students to learn about administration and provide more scheduling flexibility for students;
- The policy of limiting course hours from one prefix was increased to 15 hours to permit students to complete a six credit hour internship;
- As WKU students are no longer required to attend the national nonprofit conference (REC 494) or have access to the certificate program an advising appointment is not required upon program entry.

5.	Proposed term for implementation and spec	ial provisions (if applicable): Fall 2014
	Currently enrolled students will have three opti established, b) make course substitutions as need program.	ons: a) complete the current program as eded by advisement, or c) transfer to the revised
6.	Dates of prior committee approvals:	
	WDG D	F.1 10.2014

KRS Department:	<u>February 10, 2014</u>
CHHS Undergraduate Curriculum Committee	3/7/2014
Undergraduate Curriculum Committee	_03/27/2014
University Senate	

Proposal Date: Dec. 4, 2013

# College of Health and Human Services Department of Public Health Proposal to Revise A Program (Action Item)

Contact Person: Grace Lartey, PhD, Emmanuel Iyiegbuniwe, PhD. grace.lartey@wku.edu, emmanuel.iyiegbuniwe@wku.edu. 745-3941, 745-5088.

#### 1. Identification of program:

1.1 Current program reference number: 5211.2 Current program title: Public Health

1.3 Credit hours: 66-70

#### 2. Identification of the proposed program changes:

- Clarify core hour requirements in the major.
- Modifying Environmental Health concentration course requirements.
  - o Deleting BIOL 472, ENV 486, 495
  - o Adding ENV 360, 365, 321,323
  - o Modifying elective courses
    - Deleting ENV 321, 360, 415, GEOG 474, GEOL 487
    - Adding ENV 490, 474, 375, 380, SFTY 270
- Modifying Public Health Education concentration electives courses.
  - o Deleting PH 460

Current Program		New Program	
Core Requirements (40-44 hours)	Hours	Core Requirements (40 hours)	Hours
BIOL 131 Anatomy and Physiology	4	BIO 131 Anatomy and Physiology	4
BIOL 207 General Microbiology	3	BIO 207 General Microbiology	3
BIOL 208 General Microbiology Lab	1	BIOL 208 General Microbiology Lab	1
CHEM 109 Chemistry for the Health	4	CHEM 109 Chemistry for the Health	4
Sciences		Sciences	
MATH 116 College Algebra or higher	3	MATH 116 College Algebra or higher	3
PH 100 Personal Health	3	PH 100 Personal Health	3
SFTY 171 Safety and First Aid	1	SFTY 171 Safety and First Aid	1
PH 381 Community Health	3	PH 381 Community Health	3
PH 383 Biostatistics in the Health Sciences	3	PH 383 Biostatistics in the Health Sciences	3
PH 384 Introduction to Epidemiology	3	PH 384 Introduction to Epidemiology	3
PH 490 Internship	3-6	PH 490 Internship	3-6
PSY 100 Introduction to Psychology	3	PSY 100 Introduction to Psychology	3
COMM 145 Public Speaking	3	COMM 145 Public Speaking	3
Total	40	Total	40

Environmental Health Concentration		Environmental Health Concentration	
(26 hours)		(26 hours)	
Required Courses		Required Courses	
BIOL 472 Applied and Environmental	4	ENV 360 Air Pollution Control	3
<del>Microbiology</del>		<b>ENV 365 Air Pollution Control Lab</b>	1
ENV 280 Introduction to Environmental	3	ENV 280 Introduction to Environmental	3
Science		Science	
ENV 460 Environmental Management	3	ENV 460 Environmental Management	3
ENV 486 Senior Environmental Seminar	1		
ENV 495 Environmental Measurement	3		
		ENV 321 Fundamentals of Industrial	3
		Hygiene	
		ENV 323 Fundamentals of Industrial	1
		Hygiene Lab	
PH 385 Environmental Health	3	PH 385 Environmental Health	3
Total	17	Total	17
Electives (In addition, 9 hours must be		Electives (In addition 9 hours must be	
selected with approval of the academic		selected with approval of the academic	
advisor from the following)		advisor from the following)	
BIOL 315 Ecology	4.5	BIOL 315 Ecology	4.5
CHEM 314 Introduction to Organic	5	CHEM 314 Introduction to Organic	5
Chemistry		Chemistry	
CHEM 330 Quantitative Analysis	5	CHEM 330 Quantitative Analysis	5
ENV 321 Fundamentals of Industrial	3		
Hygiene			
ENV 360 Air Pollution Control	3		
		ENV 490 Food Safety	3
ENV 410 Water Treatment Processes	3	ENV 410 Water Treatment Processes	3
ENV 415 Water Treatment Processes*	1	ENV 411 Water Treatment Processes Lab	1
ENV 430 Radiological Health	3	ENV 430 Radiological Health	3
ENV 480 Hazardous and Solid Waste	3	ENV 480 Hazardous and Solid Waste	3
Management		Management	
GEOG 474 Environmental Planning	3		
-		ENV 474 Environmental Risk Assessment	3
GEOG 487 Environmental Law	3	GEOG 487 Environmental Law	3
GEOG 310 Global Hydrology	3	GEOG 310 Global Hydrology	3
	3	ENV 375 Introduction to Water	3
		Resources	
GEOL 487 Environmental Law and Policy	3		
-		SFTY 270 General Safety	3
		ENV 380 Principles of Environmental	3
		Toxicology	

Total	66	Total	66
Public Health Education Concentration		Public Health Education Concentration	
(30 hours)		(30 hours)	
PH 261 Foundation of Health Education	3	PH 261 Foundations of Health Education	3
PH 385 Environmental Health	3	PH 385 Environmental Health	3
PH 461 Comprehensive School Health	3	PH 461 Comprehensive School Health	3
Program		Program	
PH 483 Administration of Health Programs	3	PH 483 Administration of Health Programs	3
PH 484 Community Organization for Health	3	PH 484 Community Organization for Health	3
Education		Education	
PH 485 Methods in Community Health	3	PH 485 Methods in Community Health	3
Education		Education	
Total	18	Total	18
Electives (In addition 12 hours must be		Electives (In addition 12 hours must be	
chosen with approval of the academic		chosen with approval of the academic	
advisor from the following)		advisor from the following)	
AH 290 Medical Terminology	2	AH 290 Medical Terminology	2
HMD 211 Human Nutrition	3	HMD 211 Human Nutrition	3
HCA 340 Health Care Org & Mgt	3	HCA 340 Health Care Org & Mgt	3
SFTY 270 General Safety	3	SFTY 270 General Safety	3
PH 365 Human Sexuality	3	PH 365 Human Sexuality	3
PH 382 Peer Health Education	3	PH 382 Peer Health Education	3
PH 390 Wellness & Fitness Assessment	3	PH 390 Wellness & Fitness Assessment	3
PH 402 Worksite Health Promotion	3	PH 402 Worksite Health Promotion	3
PH 444 Death, Dying and Bereavement	3	PH 444 Death, Dying and Bereavement	3
PH 447 Human Values & the Health Sci	3	PH 447 Human Values & the Health Sci	3
PH 460 School & Community Health	3		
Workshop			
PH 464 Women's Health	3	PH 464 Women's Health	3
PH 467 Drug Abuse Education	3	PH 467 Drug Abuse Education	3
PH 468 Sexuality Education	3	PH 468 Sexuality Education	3
Total hours	70	Total hours	70

\*ENV 415 Water Treatment Processes is listed in catalog but course had been replaced with ENV 411 Water Treatment Processes Lab.

- Required core courses in the current catalog total 40 hours, however, the hours are listed as 40-44. This revision helps clarify hours in the core.
- A few courses are not offered any longer (GEOL 375, 487). The Department of Public Health has existing courses that meet program needs to replace courses no longer being offered. These changes will give students more options and graduate in time at the same time, meet program requirements.

- In addition, the Council on Education of Public Health (CEPH) currently recognizes the undergraduate Public Health and the Master of Public Health programs as one program for accreditation (undergraduate BSPH and MPH; no longer two stand-alone programs). These changes are needed to meet new accreditation guidelines for more required content from the content area.
- **5. Proposed term for implementation:** Fall 2014

Department of Public Health:	December 4, 2013
CHHS Undergraduate Curriculum Committee	March 7, 2014
Undergraduate Curriculum Committee	_03/27/2014
University Senate	

Proposal Date: 2/17/14

# College of Health & Human Services Allied Health Proposal to Revise A Program (Action Item)

Contact Person: Lynn Austin, <a href="mailto:lynn.austin@wku.edu">lynn.austin@wku.edu</a>, 5-3827

#### 1. Identification of program:

1.1 Current program reference number: 5241.2 Current program title: Dental Hygiene1.3 Credit hours: 71-72 (Education Track 77)

#### 2. Identification of the proposed program changes:

- Delete AH 290 Medical Terminology
- Reflect course number revisions for:
  - o DH 122 to DH 222
  - o DH 111 to DH 270
  - o DH 112 to DH 212
  - o DH 121 to DH 271
  - o DH 130 to DH 230
  - o DH 321 to DH 371
- Delete DH 211
- Add DH 370
- Reduce total hours for major to 69-70 Non-Education Track (Education Track 75)

1 0 1			
CURRENT CURRICULUM BACHELOR'S DEGREE		PROPOSED CURRICULUM BACHELOR'S	
(524)		DEGREE (524)	
AH 290 Medical Terminology	2		
DH 122 Preventive Dental Hygiene Care	2	<b>DH 222</b> Preventive Dental Hygiene Care	2
<del>DH 111</del> Pre-Clinical Dental Hyg.	3	DH 270 Pre-Clinical Dental Hyg.	3
DH 112-Oral Anatomy	3	DH 212 Oral Anatomy	3
DH 201 Dental Radiology I	2	DH 201 Dental Radiology I	2
DH 210 Dental Materials &		DH 210 Dental Materials &	
Expanded Functions 1	2	Expanded Functions 1	2
DH 121-Clinical Dental Hygiene I	3	DH 271 Clinical Dental Hygiene I	3
DH 130-Oral Histology &		DH 230 Oral Histology &	
Embryology	3	Embryology	3
DH 204 Periodontics	3	DH 204 Periodontics	3
DH 206 Dental Pharmacology	3	DH 206 Dental Pharmacology	3
DH 226 Dental Materials &		DH 226 Dental Materials &	
Expanded Functions II	2	Expanded Functions II	2
DH 309 Pain Control in Dental		DH 309 Pain Control in Dental	

Hygiene	4	Hygiene	4
DH 211-Clinical Dental Hygiene II	4	DH 370 Clinical Dental Hygiene II	4
DH 302 Dental Radiology II	H 302 Dental Radiology II 2 DH 303		2
DH 303 Community Dental Health	4	DH 303 Community Dental Health	4
DH 307 General & Oral Pathology	3	DH 307 General & Oral Pathology	3
DH 304 Advanced Periodontology	4	DH 304 Advanced Periodontology	4
DH 321-Clinical Dental Hygiene III	5	DH 371 Clinical Dental Hygiene III	5
DH 323 Research Methods	3	DH 323 Research Methods	3
DH 324 Practice Managements &		DH 324 Practice Managements &	
Ethics	2	Ethics	2
Non-Education Track (12-13 hours)		Non-Education Track (12-13 hours)	
*Student will choose 12-13 hours from:		*Student will choose 12-13 hours from:	
CHEM 304 Biochemistry for the Health Sciences		CHEM 304 Biochemistry for the Health	
COMM 330 Leadership Communication,		Sciences	
COMM 345 Adv. Public Speaking,		COMM 330 Leadership Communication,	
COMM 346 Persuasion,		COMM 345 Adv. Public Speaking,	
COMM 348 Interpersonal Communication,		COMM 346 Persuasion,	
COMM 349 Small Group Communication,		COMM 348 Interpersonal Communication,	
COMM 362 Organizational Communication,		COMM 349 Small Group Communication,	
COMM 374 Gender Communication,		COMM 362 Organizational Communication,	
COMM 440 Health Communication,		COMM 374 Gender Communication,	
HCA 340 Health Care Org/Management,		COMM 440 Health Communication,	
HCA 347 Intl. Comparisons Health Care,		HCA 340 Health Care Org/Management,	
PH 381 Community Health,		HCA 347 Intl. Comparisons Health Care,	
PH 383 Biostatistics in Health Sciences,		PH 381 Community Health,	
·		PH 383 Biostatistics in Health Sciences,	
PH 384 Intro to Epidemiology,		1	
PH 462 Folklore and Medicine,		PH 384 Intro to Epidemiology,	
PH 464 Women's Health,		PH 462 Folklore and Medicine,	
PH 484 Comm. Org. for Health Ed.,		PH 464 Women's Health,	
PSY 310 Ed. Psych: Development and Learning,		PH 484 Comm. Org. for Health Ed.,	
PSY 350 Social Psychology,		PSY 310 Ed. Psych: Development and Learning,	
SOCL 342 Aging in Society,		PSY 350 Social Psychology,	
SOCL 352 Technology, Work, and Society,		SOCL 342 Aging in Society,	
SOCL 375 Diversity in American Society, or		SOCL 352 Technology, Work, and Society,	
SOCL 450 Occupations and Professions	12	SOCL 375 Diversity in American Society, or	1.3
	12-	SOCL 450 Occupations and Professions	12-
(Education Trad) (40 hr. c)	13	(Falcostion Troub) (40 h :)	13
(Education Track) (18 hours)		(Education Track) (18 hours)	
(FACS 381) (Methods & Materials		(FACS 381) (Methods & Materials	
in FACS Education)		in FACS Education)	
(DH 330) (Clinical Teaching)		(DH 330) (Clinical Teaching)	
(DH 340) (Clinical Teaching II)		(DH 340) (Clinical Teaching II)	
(DH 350) (Clinical Teaching III)		(DH 350) (Clinical Teaching III)	
(PH 383) (Biostatistics in the Health Sciences)	18	(PH 383) (Biostatistics in the Health Sciences)	18
TOTAL PROGRAM HOURS	<del>71-</del>	TOTAL PROGRAM HOURS	69-
Non-Education Track	<del>72</del>	Non-Education Track	70
(Education Track)	<del>(77)</del>	(Education Track)	(75)

The additional required courses for the major are not changing. These courses are: ENG 100, PSY 100, SOCL 100, COMM 145, BIOL 131, CHEM 109, HMD 211, BIOL 207 and BIOL 208.

- Deletion of AH 290: This course is not a required course by the Commission on Dental Accreditation (our accrediting body). Dental hygiene students take courses in the curriculum that covers much of the content of this course. By deleting this course, the total hours required for the major are reduced by 2 credit hours, and the total hours to earn the degree are minimized.
- Course revisions reflecting more appropriate course numbers.
- Addition of a new course DH 370 and deletion of existing course DH 211: This new course (DH 370) was developed to better prepare students for modifications in accreditation standards. The new course has added competency exams which test students at a higher taxonomic level than the previous course. The course can only be taken by those students with junior or senior standing. A 300 level course will more appropriately set student expectations regarding the breadth, depth, and rigor of this course.
- **5. Proposed term for implementation:** Fall 2014
- **6.** Dates of prior committee approvals:

Allied Health Curriculum Committee	2-19-14	
CHHS College Curriculum Committee	3/7/2014	
	03/27/2014	
Undergraduate Curriculum Committee		
University Senate		

Proposal Date: 2/19/2014

# College of Health and Human Services School of Nursing Proposal to Revise a Program (Action Item)

Contact Person: Lorraine Bormann; Lorraine.bormann@wku.edu; 270-745-3690

#### 1. Identification of program:

1.1 Current program reference number: 586

1.2 Current program title: Baccalaureate of Science in Nursing

1.3 Credit hours: 61

#### 2. Identification of the proposed program changes:

• Add a statement that requires a minimum grade of C in NURS 102 - Introduction to Professional Nursing for applicants seeking admission to the prelicensure baccalaureate program.

3. Detailed program description:	
Current Program Description	Proposed Program Description
Western Kentucky University / 2013-2014	Western Kentucky University / 2013-2014
Undergraduate Catalog (p209)	Undergraduate Catalog (p209)
Baccalaureate of Science in Nursing (BSN)	Baccalaureate of Science in Nursing (BSN)
Applicants seeking admission to the prelicensure baccalaureate program must:	Applicants seeking admission to the prelicensure baccalaureate program must:
Be admitted to Western Kentucky     University.	<ol> <li>Be admitted to Western Kentucky University.</li> </ol>
Complete all designated prerequisite	Complete all designated prerequisite
Applicants seeking admission to the prelicensure baccalaureate program must:  1. Be admitted to Western Kentucky University.	Applicants seeking admission to the prelicensure baccalaureate program must:  1. Be admitted to Western Kentucky University.

- Have a cumulative grade point average of 2.75 or above for college level courses.
- 4. Have attained a minimum of a "C" in all required science courses. Anatomy and Physiology must have been completed no more than 5 years prior to application to the nursing program. 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 passing a challenge exam prior to application to the nursing program.
- 5. Submit application to the School of

- 3 Have a cumulative grade point average of 2.75 or above for college level courses.
- 4. Have attained a minimum of a "C" in NURS 102 Introduction to Professional Nursing and in all required science courses. Anatomy and Physiology must have been completed no more than 5 years prior to application to the nursing program. 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 passing a challenge exam prior to application to the nursing program.

- Nursing by posted deadline on website.6. Students may be asked to participate in a preadmission interview and/or testing.
- 5. Submit application to the School of Nursing by posted deadline on website.
- 6. Students may be asked to participate in a preadmission interview and/or testing.

#### 4. Rationale for the proposed program change:

- The change for applicants seeking admission to the prelicensure program requires the same minimum grade requirement for NURS 102 Introduction to Professional Nursing as the minimum grade requirement for all required science courses.
- **5. Proposed term for implementation:** Fall 2014
- 6. Dates of prior committee approvals:

Department/ – BSN Prelicensure Curriculum Committee & BSN Prelicensure Committee 

CHHS Undergraduate Curriculum Committee 

University Senate 

January 24, 2014

3/7/2014

03/27/2014

Proposal Date: January 31, 2014

# College of Health and Human Services School of Nursing Proposal to Revise A Program (Action Item)

Contact Person: Cathy Abell, cathy.abell@wku.edu, 5-3499

#### 1. Identification of program:

- 1.1 Current program reference number: 596
- 1.2 Current program title: Bachelor of Science RN to BSN
- 1.3 Credit hours: 67 credit hours (36 upper division nursing courses and 31 nursing credits from prior nursing programs)

#### 2. Identification of the proposed program changes:

- Delete requirement of HMD 211 Human Nutrition (formerly FACS 111)
- Delete requirement of PSY 199 Introduction to Developmental Psychology

#### 3. Detailed program description:

#### **Current program requirements**

### 1. Be admitted to Western Kentucky University.

- 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. Documentation on transcript of completion of PSY 199 prior to admission to program.
- 4. Have a cumulative grade point average of 2.5 or above for college level courses.
- 5. Complete application for the RN to BSN program by designated deadlines.
- 6. 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

#### **Proposed requirements**

- 1. Be admitted to Western Kentucky University.
- 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.
- 5. 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

- 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.

Curriculum requirements for the RN to BSN program include completion of:

- 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, 309, 315, 321,323, 339, 340, 400, 405, 408, 412, 430, and 431.
- University general education requirements.
- 3. A three-credit hour statistics course.
- 4. Psychology 199 (Introduction to Developmental Psychology) and HMD 211 (Human Nutrition).

- 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.

Curriculum requirements for the RN to BSN program include completion of:

- 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, 309, 315, 321,323, 339, 340, 400, 405, 408, 412, 430, and 431.
- 2. University general education requirements.
- 3. A three-credit hour statistics course.

- Deletion of PSY 199: Students entering the program are registered nurses and have completed basic nursing programs (either Associate Degree or diploma). In these nursing courses they have had content related to care of patients across the lifespan. They have also completed specific courses which include mental health nursing content and pediatric courses which contain information about growth and development.
- Deletion of HMD 211: Students entering the program are registered nurses and have completed basic nursing programs (either Associate Degree or diploma). In nursing courses in their previous program, they have had content related to the importance of nutrition and human life and wellbeing.

5.	Proposed	term for	implementation:	Fall 2014

_		•	• 4 4	
6.	Dates of	nrior	committee	approvals:
v.	Dails of	DIIUI	Communication	approvats.

RN to BSN committee	1/31/14	
CHHS College Curriculum Committee	3/7/2014	
	03/27/2014	
Undergraduate Curriculum Committee		

University Senate	

Proposal Date: 02/21/2014

#### **Ogden College**

#### **AMS Department**

#### **Proposal to Revise a Program**

(Action Item)

Contact Person: Neal Downing; <a href="mailto:neal.downing@wku.edu">neal.downing@wku.edu</a>; 745-6302

#### 1. Identification of program:

1.1 Current program reference number: 5181.2 Current program title: Architectural Sciences

1.3 Credit hours: major courses: 75 hours

1.4

#### 2. Identification of the proposed program changes:

Remove AMS 463: Architectural Documentation III and add AMS 351: Building Information Modeling as a required course; AMS 463 will become an advisor approved elective.

#### 3. Detailed program description:

Please see attached

(Side-by-side table is required for most program changes showing revised program on the right and identifying deletions by strike-through and additions in boldface.)

#### 4. Rationale for the proposed program change:

Evolution of the design and delineation process of buildings for construction as well as input from Industry indicates the necessity for students to become aware and understand the applications of the Building Information Modeling (BIM) system.

#### 5. Proposed term for implementation and special provisions (if applicable):

201430

#### 6. Dates of prior committee approvals:

AMS Department	02/21/2014
Ogden College Curriculum Committee	03/06/2014
Undergraduate Curriculum Committee	3/27/2014
University Senate	

Architectural Science Bachelor of Science Major No. 518

### ARCHITECTURAL SCIENCE: 75 hrs CURRENT

	Major Courses	
AMS 140	Intro to Occupational Safety	1 hr
AMS 151	Architectural Graphics	3 hrs
AMS 163	Architectural Drafting	3 hrs
AMS 251	3D Modeling & Imaging	3 hrs
AMS 261	Construction Methods & Materials	3 hrs
AMS 262	Construction Methods & Materials Lab	1 hr
AMS 263	Architecture Documentation I	3 hrs
AMS 273	Architectural Detailing	3 hrs
AMS 282	Architectural Structures	3 hrs
AMS 305	Building Codes	3 hrs
AMS 325	Survey of Building Systems	3 hrs
AMS 363	Architecture Documentation II	3 hrs
AMS 369	Architectural Design Studio I	4 hrs
AMS 371	Quality Assurance	3 hrs
AMS 390	Project Management	3 hrs
AMS 398	Internship I	1 hr
AMS 430	Tech Mgmt/Supervision/Team Building	3 hrs
AMS 463	Architecture Decumentation III	2 hrs
AMS 469	Architectural Design Studio II	4 hrs
AMS 488	Comprehensive Design	3 hrs
AMS 490	Senior Research	3 hrs
CE 303	Construction Management	3 hrs
CE 304	Construction Management Lab	1 hr
ENG 306 or ENG 307	Business Writing or Technical Writing	3 hrs
2.10	Management Elective Advisor Approved	3 hrs
	Architectural Science Electives Advisor Approved	6 hrs



### ARCHITECTURAL SCIENCE: 75 hrs PROPOSED

	Major Courses	
AMS 140	Intro to Occupational Safety	1 hr
AMS 151	Architectural Graphics	3 hrs
AMS 163	Architectural Drafting	3 hrs
AMS 251	3D Modeling & Imaging	3 hrs
AMS 261	Construction Methods & Materials	3 hrs
AMS 262	Construction Methods & Materials Lab	1 hr
AMS 263	Architecture Documentation I	3 hrs
AMS 273	Architectural Detailing	3 hrs
AMS 282	Architectural Structures	3 hrs
AMS 305	Building Codes	3 hrs
AMS 325	Survey of Building Systems	3 hrs
AMS 351	Building Information Modeling	3 hrs
AMS 363	Architecture Documentation II	3 hrs
AMS 369	Architectural Design Studio I	4 hrs
AMS 371	Quality Assurance	3 hrs
AMS 390	Project Management	3 hrs
AMS 398	Internship I	1 hr
AMS 430	Tech Mgmt/Supervision/Team Building	3 hrs
AMS 469	Architectural Design Studio II	4 hrs
AMS 488	Comprehensive Design	3 hrs
AMS 490	Senior Research	3 hrs
CE 303	Construction Management	3 hrs
CE 304	Construction Management Lab	1 hr
ENG 306 or ENG 307	Business Writing or Technical Writing	3 hrs
	Management Elective Advisor Approved	3 hrs
	Architectural Science Electives Advisor Approved	6 hrs

### BS Degree Total Hours: 120 hrs

See reverse for eight semester schedule layout

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 in many other exciting areas

Proposal Date: February 6, 2014

#### Ogden College of Science and Engineering Architecture and Manufacturing Sciences Proposal to Revise A Program (Action Item)

Contact Person: Bryan Reaka <u>bryan.reaka@wku.edu</u> 270-745-7032

#### 1. Identification of program:

- 1.1 Current program reference number: 506
- 1.2 Current program title: Advanced Manufacturing
- 1.3 Credit hours: 75

### **2. Identification of the proposed program changes:** To offer the option of completing a degree in advanced manufacturing entirely online by adding the AMS module classes.

- Technical Core add AMS 120-M1, AMS 120-M2, and AMS 120-M3
- Technical Core add AMS 205-M1, AMS 205-M2, and AMS 205-M3
- Technical Core add AMS 490-M1, AMS 490-M2, and AMS 490-M3
- Technical Core add AMS 328-M1, AMS 328-M2, and AMS 328-M3
- Management Core add AMS 310-M1, AMS 310-M2, and AMS 310-M3
- Management Core add AMS 356-M1, AMS 356-M2, and AMS 356-M3
- Management Core add AMS 371-M1, AMS 371-M2, and AMS 371-M3
- Management Core add AMS 390-M1, AMS 390-M2, and AMS 390-M3
- Management Core add AMS 394-M1, AMS 394-M2, and AMS 394-M3
- Management Core add AMS 396-M1, AMS 396-M2, and AMS 396-M3
- Management Core add AMS 430-M1, AMS 430-M2, and AMS430-M3
- Advanced Manufacturing Core add AMS 217-M1, AMS 217-M2, and AMS 217-M3
- Advanced Manufacturing Core add AMS 227-M1, AMS 227-M2, and AMS 227-M3
- Advanced Manufacturing Core add AMS 342-M1, AMS 342-M2, and AMS 342-M3
- Advanced Manufacturing Core add AMS 343-M1, AMS 343-M2, and AMS 343-M3
- Advanced Manufacturing Core add AMS 352-M1, AMS 352-M2, and AMS 352-M3
- Advanced Manufacturing Core add AMS 370-M1, AMS 370-M2, and AMS 370-M3
- Remove advisor-approved electives from advanced manufacturing major
- Decrease the number of hours in the advanced manufacturing core from 29-30 to 18
- Decrease the number of hours in the advanced manufacturing major from 75 to 64

Advanced Manufacturing	(Old)	75	Advanced Manufacturing	(New)	64
Technical Core: 19hi	rs		Technical Core: 19hrs		
Basic Marketing Concepts or	ACCT200 or MKT 220 or FIN 161	3	Introductory Accounting or Basic Marketing Concepts or Personal Finance	ACCT200 or MKT 220 or FIN 161	3
Basic Electricity	AMS120	3	Basic Electricity	AMS120 or (AMS 120-M1, AMS 120-M2, and AMS 120-M3)	3

Architectural Drafting or CADD for Manufacturing	AMS 163/205	3	Architectural Drafting or CADD for Manufacturing	AMS 163/205 or (AMS 205- M1, AMS 205- M2, and AMS 205-M3)	3
Industrial Statistics	AMS271	3	Industrial Statistics	AMS271	3
Mentored Research Experience or Internship I	UC 400 or AMS398	1	Mentored Research Experience or Internship I	UC 400 or AMS398	1
Senior Research  Robotics and Machine Vision	AMS490	3	Senior Research  Robotics and Machine Vision	AMS490 or (AMS 490-M1, AMS 490-M2, and AMS 490-M3) AMS 328 or (AMS 328-M1, AMS 328-M2, and AMS 328-M3)	3
	27hrs		Management Core: 27hrs	0200)	
Work Design/Ergonomics	AMS310	3	Work Design/Ergonomics	AMS310 or (AMS 310-M1, AMS 310-M2, and AMS 310-M3)	3
Systems Design and Operation	AMS356	3	Systems Design and Operation	AMS356 or (AMS 356-M1, AMS 356-M2, and AMS 356-M3) AMS390 or (AMS 390-M1, AMS 390-M2, and AMS	3
Project Management	AMS390	3	Project Management	390-M3)	3
Technology Mgmt./Sup./Team Blding	AMS430	3	Technology Mgmt./Sup./Team Blding	AMS430 or (AMS 430-M1, AMS 430-M2, and AMS 430-M3)	3
Basic Business Communications or Advanced Public Speaking or Persuasion or Interpersonal Communication or Group Decision Making or Organizational Communication or Business Communication Fundamentals	BUS 214C or COMM 345 or COMM 346 or COMM 349 or COMM 362 or MGT 361	3	Basic Business Communications or Advanced Public Speaking or Persuasion or Interpersonal Communication or Group Decision Making or Organizational Communication or Business Communication Fundamentals	BUS 214C or COMM 345 or COMM 346 or COMM 349 or COMM 362 or MGT 361	3
Legal Environment of Business or	MGT 200 or		Legal Environment of Business or	MGT 200 or	
Business Law or MGMT of Nonprofit Org	MGT301 or MGT 333	3	Business Law or MGMT of Nonprofit Org	MGT301 or MGT 333	3
Quality Assurance	AMS371	3	Quality Assurance	AMS371 or (AMS 371-M1, AMS 371-M2, and AMS 371-M3)	3
Lean Manufacturing	AMS 394	3	Lean Manufacturing	AMS 394 or (AMS 394-M1, AMS 394-M2,	3

				and AMC	
				and AMS 394-M3)	
				AMS 396 or	
				(AMS 396-M1,	
				AMS 396-M2,	
				and AMS	
Intro to Supply Chain Management	AMS 396	3	Intro to Supply Chain Management	396-M3)	3
Advanced Manufacturing Co	II.		Advanced Manufacturing	,	
Advanced mandiacturing 60	re. 29-301113	<u> </u>	Advanced Mandiacturing	AMS217 or	
				(AMS 217-M1,	
				AMS 217-W1,	
				and AMS	
Industrial Materials or	AMS217		Industrial Materials or	217-M3) or	
Applied Strength of Materials	or CM337	3	Applied Strength of Materials	CM337	3
Applied Strength of Materials	or Civiss7	3	Applied Strength of Materials		3
				AMS227 or	
				(AMS 227-M1,	
				AMS 227-M2,	
Manufacturing Matheda	AMS227	١ ,	Manufacturina Mathada	and AMS	•
Manufacturing Methods	AIVI5221	3	Manufacturing Methods	227-M3)	3
				AMS342 or	
				(AMS 342-M1,	
				AMS 342-M2,	
	****			and AMS	
Manufacturing Operations	AMS342	3	Manufacturing Operations	342-M3)	3
				AMS343 or	
				(AMS 343-M1,	
				AMS 343-M2,	
				and AMS	_
Automated Systems	AMS343	3	Automated Systems	343-M3)	3
				AMS352 or	
				(AMS 352-M1,	
				AMS 352-M2,	
				and AMS	
Food Processing: Unit Operation	AMS352	3	Food Processing: Unit Operation	352-M3)	3
				AMS370 or	
				(AMS 370-M1,	
				AMS 370-M2,	
				and AMS	
Computer Numeric Control	AMS370	3	Computer Numeric Control	370-M3)	3
Advisor Approved Electives		11-12			
				MATH 117, or	
			Additional Requirements in Major	HIGHER	3

- All modularization of courses Supports the Kentucky Council on Postsecondary Education Commonwealth College's goal to enable a state-wide transfer program in the Manufacturing field for site based individuals.
- Remove advisor-approved electives from advanced manufacturing major This is to allow students to bring in coursework that has been acquired through other departments across the institution as well as transfer credits
- Decrease advanced manufacturing core from 29-30 hours to 18 hours this reflects the removal of advisor-approved electives from the major
- **Decrease advanced manufacturing major hours from 75 to 64** due to the removal of the advisor-approved electives from the Advanced Manufacturing major

<b>5.</b> Eff	ective	Catalog	Year:	2014-2015
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<b>6.</b>	Dates of prior committee approvals:	

Architectural and Manufacturing Sciences	2-7-2014
OCSE Curriculum Committee	3-7-2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	

### Ogden College Science and Engineering Chemistry Proposal to Revise A Program (Action Item)

Contact Person: Hemali Rathnayake, Hemali.rathnayake@wku.edu, 270-745-6238

#### 1. Identification of program:

1.1 Current program reference number: 3351.2 Current program title: Minor in Chemistry

1.3 Credit hours: 18/21

#### 2. Identification of the proposed program changes:

 Require at least one upper division laboratory-based course in residence at the main WKU campus

#### 3. Detailed program description:

Current program	
-----------------	--

Required courses (18/21 hrs.)

CHEM 120/121

CHEM 222/223

CHEM 330 and courses numbered above 300 to make a total of at least 18 semester hours.

Note: At least nine semester hours must be earned in courses numbered 300 and above.

#### Proposed program

Required courses (18/21 hrs.)

CHEM 120/121

CHEM 222/223

CHEM 330 and courses numbered above 300 to make a total of at least 18 semester hours.

Note: At least nine semester hours must be earned in courses numbered 300 and above.

At least one upper division laboratorybased course must be taken in residence at the main WKU campus.

#### 4. Rationale for the proposed program change:

 At least one upper division laboratory course experience is proposed as required, emphasizing the importance of developing hands on experience, with practical aspects of chemistry. Chemistry requires integration in laboratory skills and experience in addition to lecture-based coursework. With an increase of transfer credits at all levels, the department has determined that it is vital for the integrity of the minor to require students to take an upper division laboratory-based chemistry course at the main WKU campus. Chemistry, at this level relies heavily on modern instrumentation, which is not routinely available at institutions offering chemistry programs that are not ACS certified.

5.	Proposed term 1	for implementation and	special provisions	(if a	ipplicable)	): Fall 2014

#### 6. Dates of prior committee approvals:

Department of Chemistry	<u>3/5/2014</u>
Ogden College Curriculum Committee	3/6/2014
Professional Education Council (if applicable)	
Undergraduate Curriculum Committee	03/27/2014
University Senate	

Proposal Date: February 10, 2014

#### Potter College of Arts & Letters Department of Philosophy & Religion Proposal to Revise A Program (Action Item)

Contact Person: Eric Bain-Selbo, <u>eric.bain-selbo@wku.edu</u>, x55744 Jeffrey Samuels, Jeffrey.samuels@wku.edu, x55748

#### 1. Identification of program:

1.1 Current program reference number: 317

1.2 Current program title: Minor in Asian Studies

1.3 Credit hours: 21

#### 2. Identification of the proposed program changes:

- Add RELS 317 and 318 to Category 1.
- Delete ARBC 387 from Category 3.
- Add ARBC 102 to Category 3.
- Delete ARC 490 from Category 3.
- Add ARC 498 to Category 3.
- Add CHNF 101 and 102 to Category 3.
- Delete GEOG 367 from Category 3.
- Add GEOG 467 to Category 3.

#### 3. Detailed program description:

#### Asian Religions and Cultures track within Asian Studies

Asian Kengions and Cultures track within Asian Studies				
Religion courses (9 credit hours)	Religion courses (9 credit hours)			
RELS 103: Religions of Asia	RELS 103: Religions of Asia			
RELS 302: Buddhism	RELS 302: Buddhism			
RELS 303: Hinduism	RELS 303: Hinduism			
RELS 306: Islam	RELS 306: Islam			
RELS 308: East Asian Religious Traditions	RELS 308: East Asian Religious Traditions			
RELS 320: Religions of the Middle East	RELS 317: Confucianism			
	RELS 318: Daoism			
	RELS 320: Religions of the Middle East			
History and Politics (6 credit hours)	History and Politics (6 credit hours)			
HIST 110: Introduction to Asian Civilization	HIST 110: Introduction to Asian Civilization			
HIST 370: Modern South Asia	HIST 370: Modern South Asia			
HIST 460: Traditional East Asia	HIST 460: Traditional East Asia			
HIST 461: Modern East Asia	HIST 461: Modern East Asia			
HIST 462: History of the Middle East	HIST 462: History of the Middle East			
HIST 471: Modern China	HIST 471: Modern China			
HIST 472: Modern Japan	HIST 472: Modern Japan			

PS 365: Government and Politics of the Middle	PS 365: Government and Politics of the Middle	
East	East	
PS 366: Government and Politics in East Asia	PS 366: Government and Politics in East Asia	
Electives (6 credit hours):	Electives (6 credit hours):	
·	, , ,	
ANTH/FLK 341: Peoples and Cultures of Asia	ANTH/FLK 341: Peoples and Cultures of Asia	
ARBC 101: Beginning Arabic	ARBC 101: Beginning Arabic	
ARBC 387: Beginning Arabic	ARBC 102: Beginning Arabic	
ARC 401: Topics in Asian Religions and	ARC 401: Topics in Asian Religions and	
Cultures	Cultures	
ARC 490:	ARC 498: Ind. Study in Asian Religions and	
ART 407: Islamic Art and Architecture	Cultures	
CHIN 101: Beginning Chinese	Art 407: Islamic Art and Architecture	
CHIN 102: Beginning Chinese	CHIN 101: Beginning Chinese	
ENG 368: Japanese Film in Translation	CHIN 102: Beginning Chinese	
GEOG 465: Geography of Asia	CHNF 101: Beginning Chinese	
GEOG 367:	CHNF 102 Beginning Chinese	
JAPN 101: Beginning Japanese	ENG 368: Japanese Film in Translation	
JAPN 102: Beginning Japanese	Geography 465: Geography of Asia	
PERF 105: Taiji (1 hour; may be take up to	Geography 467: Geography of the Middle	
three times for credit)	East	
RELS 100: New Testament	JAPN 101: Beginning Japanese	
RELS 101: Old Testament/Hebrew Scriptures	JAPN 102: Beginning Japanese	
RELS 311: The Qur'an	PERF 105: Taiji (1 hour; may be take up to	
RELS 390: Pali I	three times for credit)	
RELS 391: Pali II	RELS 100: New Testament	
SOC 353: Sociology of Modern Japan	RELS 101: Old Testament/Hebrew Scriptures	
	RELS 311: The Qur'an	
	SOC 353: Sociology of Modern Japan	

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/FLK 341, ENG 368, HIST 110, 370, 460, 461, 471, 472, PERF 105

(may be taken up to three times), RELS 103, 302, 303, 306, 308, 311; and 9 hours electives selected from ARBC

101, 387, ARC 401, 498, CHIN 101, 102, GEOG 465, JAPN 101, 102, PS 366, RELS 390, 391, SOCL 353.

#### East and South Asian Track within the Asian studies minor:

12 hours from at least three different	12 hours from at least three different			
departments	departments			
ANTH/FLK 341	ANTH/FLK 341			
ENG 368	ENG 368			
HIST 110	HIST 110			
HIST 370	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: Confucianism
RELS 318: Daoism
SOC 353: Sociology of Modern Japan
_
9 hours electives selected from
ARBC 101
ARBC 102
ARC 401
ARC 498
CHIN 101
CHIN 102
CHNF 101
CHNF 102
GEOG 465
JAPN 101
JAPN 102
PS 366
RELS 390
RELS 391
RELS 391
HHHHHHILS 3/4/COOCHH

### 4. Rationale for the proposed program change: Asian Religions and Cultures Track

- These courses were developed after the creation of the ARC track within the Asian Studies minor; as they focus on Asian religions (Confucianism and Daoism), they belong in the religion category.
- ARBC 387 has been eliminated.
- ARBC 102 has replaced ARBC 387.
- ARC 490 no longer exists.
- ARC 498, an Independent study course for Asian Religions and Culture, allows students to focus on a topic of their interest.
- The two Chinese Flagship courses were developed after the minor was revised; like CHIN 101 and 102, these two language courses should count toward the major.
- GEOG 367 seems to have been a misprint; the course does not exist

• GEOG 467 focuses on the Middle East and, like for the major, should count toward the Electives.

#### **East and South Asian Track**

- These courses were developed after the creation of the ARC track in the Asian Studies minor; as they focus on Asian religions (Confucianism and Daoism), they belong in the religion category.
- By moving Sociology 353 from the second category to the first one increases the students' ability to take courses from at least three different departments
- ARBC 387 has been eliminated.
- ARBC 102 has replaced ARBC 387.
- The two Chinese Flagship courses were developed after the minor was revised; like CHIN 101 and 102, these two language courses should count toward the major.
- SOC 353 belongs in category one to increase students' chances of taking courses from at least three different departments.

#### 5. Proposed term for implementation and special provisions (if applicable): 201430

#### **6.** Dates of prior committee approvals:

Asian Studies Advisory Committee February 10, 2014

Department of Philosophy and Religion February 19, 2014

Potter College Curriculum Committee March 6, 2104

Undergraduate Curriculum Committee 03/27/2014

**University Senate** 

# Potter College of Arts & Letter Department of Philosophy & Religion Proposal to Revise A Program (Action Item)

Contact Person: Eric Bain-Selbo, <u>eric.bain-selbo@wku.edu</u>, x55744 Jeffrey Samuels, <u>Jeffrey.samuels@wku.edu</u>, x55748

## 1. Identification of program:

- 1.1 Current program reference number: 615
- 1.2 Current program title: Major in Asian Religions and Cultures
- 1.3 Credit hours: 33

## 2. Identification of the proposed program changes:

- Add RELS 317 and 318 to Category 1.
- Add CHNF 101 and 102 to Category 2.
- Add CHIN 201 and 202 to Category 4.
- Add JAPN 201 and 202 to Category 4.
- Eliminate ARBC/RELS 386 and 387 from Category 2.
- Add ARBC 101 and 102 to Category 2.
- Add ARBC 201 and 202 to Category 4.
- Add CHNF 201 to Category 4.
- Change Senior Seminar credit hours from 3 to 1.
- Change credit hours for program from 33 to 31.
- Replace the words "6 credit hours" with "one year sequence" in the Language category.
- Delete wording from Electives category.

### 3. Detailed program description:

Religion courses (9 credit hours)	Religion courses (9 credit hours)
RELS 103: Religions of Asia	RELS 103: Religions of Asia
RELS 302: Buddhism	RELS 302: Buddhism
RELS 303: Hinduism	RELS 303: Hinduism
RELS 306: Islam	RELS 306: Islam
RELS 308: East Asian Religious Traditions	RELS 308: East Asian Religious Traditions

RELS 320: Religions of the Middle East  RELS 317: Confucianism  RELS 318: Daoism  RELS 320: Religions of the Middle East  Language (one sequence, 6 credit hours)  Language (one year sequence)
East
Language (one sequence, 6 credit hours)  Language (one year sequence)
ARBC/RELS 386 and 387: Arabic ARBC 101/102: Elementary Arabic
CHIN 101/102: Elementary Chinese CHIN 101/102: Elementary Chinese
JAPN 101/102: Elementary Japanese CHNF 101/102: Elementary Chines
RELS 390/391: Pali JAPN 101/102: Elementary Japanese
RELS 390/391: Pali
History and Delities (Constitutions)
History and Politics (6 credit hours)  History and Politics (6 credit hours)
HIST 110: Introduction to Asian HIST 110: Introduction to Asian
Civilization Civilization
HIST 370: Modern South Asia HIST 370: Modern South Asia
HIST 460: Traditional East Asia HIST 460: Traditional East Asia
HIST 461: Modern East Asia HIST 461: Modern East Asia
HIST 462: History of the Middle East HIST 462: History of the Middle East HIST 471. M. J. Chi.
HIST 471: Modern China HIST 472: Modern Japan HIST 472: Modern Japan
HIST 472: Modern Japan PS 365: Government and Politics of the PS 365: Government and Politics of the
Middle East  Middle East  Middle East
PS 366: Government and Politics in  PS 366: Government and Politics in
East Asia East Asia
Electives (three courses from the following list   Electives (courses from the following list or
or any of the previous courses; 9 credit hours): any of the previous courses; 7-9 credit hours
ADC 401, Tonics in Asian Policians
ARC 401: Topics in Asian Religions and Cultures  ARBC 201: Intermediate Arabic ARBC 202: Intermediate Arabic
ARC 498: Ind. Study in Asian  ARC 401: Topics in Asian Religions
Religions and Cultures and Cultures
Anthropology 341: Peoples and ARC 498: Ind. Study in Asian
Cultures of Asia Religions and Cultures
Art 407: Islamic Art and Architecture  Anthropology 341: Peoples and
English 368: Japanese Film in  Cultures of Asia
Translation Art 407: Islamic Art and Architecture Geography 465: Geography of Asia CHIN 201: Intermediate Chinese
Geography 465: Geography of Asia Geography 467: Geography of the  CHIN 201: Intermediate Chinese CHIN 202: Intermediate Chinese
Middle East  Middle East  CHNF 201: Intermediate Chinese
PERF 105: Taiji (1 hour; may be take  English 368: Japanese Film in
up to three times for credit)  Translation
RELS 100: New Testament Geography 465: Geography of Asia

RELS 101: Old Testament/Hebrew Geography 467: Geography of the Scriptures Middle East RELS 311: The Qur'an JAPN 201: Intermediate Japanese SOC 353: Sociology of Modern Japan JAPN 202: Intermediate Japanese PERF 105: Taiji (1 hour; may be take up to three times for credit) **RELS 100: New Testament** RELS 101: Old Testament/Hebrew Scriptures RELS 311: The Qur'an SOC 353: Sociology of Modern Japan Senior Seminar (1 hour): ARC 499 Senior Seminar (3 hours): ARC 499

# 4. Rationale for the proposed program change:

- These courses were developed after the creation of the ARC major; because they focus on Asian religions (Confucianism and Daoism), they belong in the religion category.
- The two Chinese Flagship courses were developed after the major was created; as they focus on Chinese, they belong in the language category.
- Given the importance of language to the study of the Asian continent, we want to allow students to count more language work as part of the ARC major.
- ARBC/RELS 386 and 387 have been eliminated.
- ARBC/RELS 386 and 387 have been replaced by ARBC 101 and 102; we would therefore like to include those courses as part of the language requirement.
- Given the importance of language to the study of the Asian continent, we want to allow students to count more language work as part of the ARC major.
- Given the importance of language to the study of the Asian continent, we want to allow students to count an additional course in the Chinese Flagship program as part of the ARC major.
- This change reflects the change of the Senior Seminar course (ARC 499) from 3 hours to 1 hour in the major.
- Given the change of credit hours of the Senior Seminar course, the total hours of the ARC major drops from 33 hours to 31 hours.
- As the Chinese Flagship courses are 4 credit hours, a one year sequence would be more than 6 credit hours.
- Given that Flagship courses are generally 4 credit hours, some students may not need three courses in electives to reach the 31 credit hours; therefore, we have eliminated the word "three" from the description of electives and replaced with a credit hour requirement (7-9 credit hours).

# 5. Proposed term for implementation and special provisions (if applicable): 201430

# **6.** Dates of prior committee approvals:

Asian Studies Advisory Committee February 10, 2014

Department of Philosophy and Religion February 19, 2014

Potter College Curriculum Committee March 6, 2014

Undergraduate Curriculum Committee 03/27/2014

University Senate

# Potter College of Arts & Letters Potter College Interdisciplinary Studies Proposal to Revise A Program (Action Item)

Contact Person: Anthony Harkins, anthony.harkins@wku.edu, 5-3149

# 1. Identification of program:

1.1 Current program reference number: 758

1.2 Current program title: Popular Culture Studies

1.3 Credit hours: 34

## 2. Identification of the proposed program changes:

- required hours of electives increased from 15 to 18
- replace JOUR 201 with SJB 154 in Category 3
- drop FREN 427, GEOG 430, JOUR 201, and THEA 431 as possible electives in the major
- add FILM 399, GEOG 330, PS 331, SJB 154, THEA 430 as possible electives in the major
- the language regarding which courses require a grade of C or better is clarified

# 3. Detailed program description:

Existing Program	Proposed Revised Program	
Required Courses (16 hours):	Required Courses (16 hours):	
1. POP 201 (3 hours) Prerequisite: ENG 100	1. POP 201 (3 hours) Prerequisite: ENG 100	
or permission of instructor	or permission of instructor	
2. Core Courses (12 hours):	2. Core Courses (12 hours):	
Students must take one course from each of the	Students must take one course from each of the	
following four categories, each of which	following four categories, each of which	
represents a shared theoretical approach to the	represents a shared theoretical approach to the	
subject.	subject.	
Category One: HIST 340 or HIST 447	Category One: HIST 340 or HIST 447	
Category Two: FLK 371, 373, 281	Category Two: FLK 371, 373, 281	
Category Three: BCOM 300, <del>JOUR 201</del> ,	Category Three: BCOM 300, SJB <b>154</b> ,	
ENG 366, ENG 465	ENG 366, ENG 465	
Category Four: PHIL 207, SOCL 245,	Category Four: PHIL 207, SOCL 245,	
PS 372	PS 372	
3. POP 498 (1 hour):	3. POP 498 (1 hour):	
Prerequisites: POP 201 and Senior status and	Prerequisites: POP 201 and Senior status and	
21 credit hours in the major prior to or	21 credit hours in the major prior to or	

concurrent with taking this course.

Elective Courses (45 hours): Students will fulfill the remaining fifteen hours of the major by choosing from the following elective courses: AFAM 190, ANTH 120, 277, 342, 350, 448, ART 312, 313, 325, 334, 390, 405, 408. 409, 410, 445, BCOM 201, 300, 401, ENG 320, 321, 340, 365, 366, 368, 370, 465, 466, FILM 201, 369, FLK 276, 281, 371, 373, 379, 410, 445, 464, 478, FREN 323, 427, 450, GEOG 430, GERM 333, 335, 437, GWS 375, HIST 320, 321, 340, 391, 402, 447, 490, JOUR 201, PHIL 207, POP 399, PS 303, 320, 321, 372, SOCL 245, 324, 345, SPAN 373, 376, 490, THEA 431.

Students must earn a grade of "C" or better in all non-elective eore courses applied to the popular culture studies 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.

concurrent with taking this course.

Elective Courses (18 hours): Students will fulfill the remaining eighteen hours of the major by choosing from the following elective courses: AFAM 190, ANTH 120, 277, 342, 350, 448, ART 312, 313, 325, 334, 390, 405, 408, 409, 410, 445, BCOM 201, 300, 401, ENG 320, 321, 340, 365, 366, 368, 370, 465, 466, FILM 201, 369, 399, FLK 276, 281, 371, 373, 379, 410, 445, 464, 478, FREN 323, 450, GEOG 330, GERM 333, 335, 437, GWS 375, HIST 320, 321, 340, 391, 402, 447, 490, PHIL 207, POP 399, PS 303, 320, 321, 331, 372, SJB 154, SOCL 245, 324, 345, SPAN 373, 376, 490, THEA 430

Students must earn a grade of "C" or better in all **required** non-elective courses applied to the popular culture studies 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.

# 4. Rationale for the proposed program changes:

- The decision to increase the number of electives from 5 to 6 reflects the recent change in status of POP 498 from 4 credit hours to 1 and the Committee's desire to maintain a 34 hour major.
- Changes in Category 2 reflect the elimination of JOUR 201 by the School of Journalism and Broadcasting and the decision by the Popular Culture Studies Curriculum Committee that SJB 154 (New Media Literacy) is the best replacement for that course.
- Removal of elective course reflect: the fact that FREN 427 is only offered to students studying abroad in France and thus is unavailable to POP majors; the renumbering by the Geography Department of GEOG 430 as 330; the elimination of JOUR 201; the decision of the Theater Department to change THEA 431 to a musical theater repertoire course only.
- Additions of elective courses reflect: the addition of PS 331 (Politics outside the Box), SJB 154, FILM 399 (Special Topics) and THEA 430 (Musical Theater History) as appropriate electives in the major; the renumbering by the Geography Department of GEOG 430 as 330.
- It is proposed that the word "core" be removed from the description of courses that students must earn a grade of "C" or better and the word "required" be added to make clear that such grade requirements apply to all required courses including POP 201, all core courses in the major, and POP 498.

5.	Proposed term for implementation and special	provisions (if applicable): 201430
6.	Dates of prior committee approvals:	
	Popular Culture Studies Curr. Comm.:	February 19, 2014
	PCAL Curriculum Committee	March 6, 2104
	Professional Education Council (if applicable)	<u>N/A</u>
	General Education Committee (if applicable)	<u>N/A</u>
	Undergraduate Curriculum Committee	03/27/2014
	University Senate	

# University College Honors Academy Proposal to Revise A Program (Action Item)

Contact Person: Clay Motley, clay.motley@wku.edu, 745-2081

### 1. Identification of program:

1.1 Current program reference number: NA1.2 Current program title: Honors College

1.3 Credit hours: 33

### 2. Identification of the proposed program changes:

- The Honors College's 33-hour curricula (thesis and non-thesis) currently require students to earn nine hours of Honors credit in General Education courses.
- Because of the implementation of the Colonnade Plan, the Honors College needs to revise the 33-hour curricula to reflect Colonnade Plan categories, which replace General Education as WKU's academic core requirement.
- Therefore, we propose that students enrolling in a 33-hour Honors curricula (thesis or non-thesis) must earn nine hours of Honors credit in 100 and/or 200 level Colonnade Plan courses.
- This change needs to be reflected in WKU's *Undergraduate Catalogue*.

#### 3. Detailed program description:

In the table below, the left side reflects the Honors College's current 33-hour thesis track, with proposed revisions struck through. The right side reflects the proposed 33-hour thesis track with revisions in bold.

Thesis	Option	Thesis Option		
HON 251	3 hours	HON 251	3 hours	
Honors Lower-Division	9 hours  General Education  *Must include at least one course from three of the six general education categories (A, B, C, D, F, or F	Honors Lower-Division	9 hours  Colonnade Plan  *Must include 9 hours from 100 or 200-level Colonnade courses	
Honors Elective (any level)	6 hours	Honors Elective (any level)	6 hours	
Honors Upper-Division Electives	6 hours	Honors Upper-Division Electives	6 hours	
Honors Upper-Division in Major	3 hours	Honors Upper-Division in Major  Total Hours	3 hours 6 hours	
Capstone Experience/ Thesis  Total Hours	6 hours 33 hours		33 hours	

In the table below, the left side reflects the Honors College's current 33-hour non-thesis track, with proposed revisions struck through. The right side reflects the proposed 33-hour non-thesis track with revisions in bold

Non-Thesis Option		Non-Thesis Option		
HON 251	3 hours	HON 251	3 hours	
Honors Lower-Division	9 hours  General Education  *Must include at least one course from three of the six general education categories (A, B, C, D, E or F).	Honors Lower-Division  Honors Elective (any level)	9 hours Colonnade Plan *Must include 9 hours from 100 or 200-level Colonnade courses 6 hours	
Honors Elective (any level)	6 hours	Honors Upper-Division Electives	6 hours	
Honors Upper-Division Electives	6 hours	Honors Upper-Division in Major	9 hours	
Honors Upper-Division in Major	9 hours	Total Hours	33 hours	
Total Hours	33 hours			

#### 4. Rationale for the proposed program change:

All students enrolling at WKU as of Fall 2014 will be required to complete the Colonnade Plan, rather than General Education. Therefore, the Honors College's curricula must reflect this change. The proposed revisions would require students to earn the same amount of Honors credit in similar core courses, but the revisions would allow the Honors College curriculum to function within the framework of the newly implemented Colonnade Plan.

# 5. Proposed term for implementation and special provisions (if applicable): Fall 2014

Department/ Unit: Honors Academy	02/18/2014
University College Curriculum Committee	03/06/2014
Professional Education Council (if applicable)	-
Undergraduate Curriculum Committee	03/27/2014
University Senate	

# Ogden College of Science and Engineering Department of Architectural and Manufacturing Sciences Proposal to Create a New Certificate Program (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

### 1. Identification of program:

- 1.1 Program title: Automation Certificate
- 1.2 Required hours in program: 12
- 1.3 Special information: Automatic control is the use of various control systems for operating equipment such as machinery, processes in factories, boilers and heat treating ovens, switching in telephone networks, steering and stabilization of ships, aircraft and other applications with minimal or reduced human intervention.
- 1.4 Catalog description: Provide an understanding of the skills of direction, definition, design, development/application, deployment, documentation, and support of systems, software, and equipment used in control systems, manufacturing information systems, systems integration, and operational consulting as they apply to automation professionals.
- 1.5 Classification of Instructional Program Code (CIP): 15.0613

#### 2. Objectives of the proposed certificate program:

**Employers**: Manufacturers in South Central Kentucky can find the workers they need to prosper, grow, and remain competitive in the global marketplace.

**Individuals**: Workers in the region have the knowledge and skills required to be productive in the manufacturing jobs of today, but also the critical thinking and innovation skills to advance in the manufacturing careers of tomorrow.

**Systems/Accountability**: Education and workforce systems are aligned with employer requirements and make both efficient and effective use of resources to achieve improved outcomes for both manufacturers and workers.

**Communications**: Enhanced communication efforts raise awareness of the value of manufacturing in the region and promote its high-wage career opportunities to potential workers.

#### 3. Rationale:

- 3.1 Reason for developing the proposed certificate program: To support the Chamber of Commerce's Urgent Call to Action to Support Manufacturing by developing a collaborative action plan, driven by regional manufacturers, with strategies that align education and training provider outputs with employer needs.
- 3.2 Relationship of the proposed certificate program to other programs now offered by the department: This is a portion of classes you would take for a degree option concentrating in the automation area to help student gain knowledge to fill the needs of employers.

- 3.3 Relationship of the proposed certificate program to certificate programs offered in other departments: There are no other certificate programs in any other departments dealing with the manufacturing field.
- 3.4 Projected enrollment in the proposed certificate program: 12-15 a semester
- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): None
- 3.6 Relationship of the proposed certificate program to the university mission and objectives: The certificate program is consistent with WKU mission and objectives by creating new programs and strengthening its curriculum to improve the quality of life and economic well-being of the citizens of Kentucky.

### 4. Curriculum:

(Required 9 hours)		
AMS 328	Robotics and Machine Vision	3 hrs
AMS 343 OR (AMS 343-M1,		
AMS 343-M2, and AMS 343-M3)	Automated Systems	3 hrs
AMS 370 OR (AMS 370-M1,		
AMS 370-M2, and AMS 370-M3)	Computer Numeric Control	3 hrs
(Select 3 hours from following)		
*AMS 301	Intro to Food Science and Technology	3 hrs
*AMS 342 OR (AMS 342-M1,		
AMS 342-M2, and AMS 343-M3)	Manufacturing Operations	3 hrs
*AMS 352 OR (AMS 352-M1,		
AMS 352-M2, and AMS 352-M3)	Food Processing: Unit Operations	3 hrs
*AMS 356 OR (AMS 356-M1,		
AMS 356-M2, and AMS 356-M3)	Systems Design and Operation	3 hrs
*AMS 394 OR (AMS 394-M1,		
AMS 394-M2 and AMS 394-M3)	Lean Manufacturing	3 hrs
*AMS 396 OR (AMS 396-M1,		
AMS 396-M2, and AMS 396-M3)	Intro to Supply Chain Management	3 hrs

# 5. Budget implications:

Proposed method of staffing: Current faculty

Special equipment needed: None Expendable materials needed: None Laboratory materials needed: None

	ť	5. l	Prop	posed	term	for in	ıplemen <sup>,</sup>	tation:	Fall	201	4
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Architectural and Manufacturing Sciences:	2-7-2014
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OCSE Curriculum Committee	3-6-2014
Contact with Office of Academic Affairs	9/23/2013 – 2/17/2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	
Board of Regents	

# Ogden College of Science and Engineering Department of Architectural and Manufacturing Sciences Proposal to Create a New Certificate Program (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of program:

- 1.1 Program title: Manufacturing and Logistics Certificate
- 1.2 Required hours in program: 12
- 1.3 Special information: This program prepares individuals to apply basic manufacturing and material handling skills in support of industrial operations.
- 1.4 Catalog description: Provide 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 put together integrated systems. The focus is on distribution, warehousing and material handling.
- 1.5 Classification of Instructional Program Code (CIP): 15.0613

# 2. Objectives of the proposed certificate program:

**Employers**: Manufacturers in South Central Kentucky can find the workers they need to prosper, grow, and remain competitive in the global marketplace.

**Individuals**: Workers in the region have the knowledge and skills required to be productive in the manufacturing jobs of today, but also the critical thinking and innovation skills to advance in the manufacturing careers of tomorrow.

**Systems/Accountability**: Education and workforce systems are aligned with employer requirements and make both efficient and effective use of resources to achieve improved outcomes for both manufacturers and workers.

**Communications**: Enhanced communication efforts raise awareness of the value of manufacturing in the region and promote its high-wage career opportunities to potential workers.

#### 3. Rationale:

- 3.1 Reason for developing the proposed certificate program: To support the Chamber of Commerce's Urgent Call to Action to Support Manufacturing by developing a collaborative action plan, driven by regional manufacturers, with strategies that align education and training provider outputs with employer needs.
- 3.2 Relationship of the proposed certificate program to other programs now offered by the department: This is a portion of classes you would take for a degree option concentrating in the manufacturing and logistics area to help student gain knowledge to fill the needs of employers.
- 3.3 Relationship of the proposed certificate program to certificate programs offered in other departments: There are no other certificate programs in any other departments dealing with the manufacturing field.
- 3.4 Projected enrollment in the proposed certificate program: 12-15 a semester

- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): None
- 3.6 Relationship of the proposed certificate program to the university mission and objectives: The certificate program is consistent with WKU mission and objectives by creating new programs and strengthening its curriculum to improve the quality of life and economic well-being of the citizens of Kentucky.

## 4. Curriculum:

4. Curriculum.			
(9 hours Required)			
*AMS 356 OR (AMS 3	56-M1,		
AMS 356-M2, and AMS	S 356-M3)	Systems Design and Operation	3 hrs
*AMS 394 OR (AMS 3	94-M1,		
AMS 394-M2, and AM	S 394-M3)	Lean Manufacturing	3 hrs
*AMS 396 OR (AMS 3	96-M1,		
AMS 396-M2, and AMS	S 396-M3)	Intro to Supply Chain Management	3 hrs
(Select 3 hours from fol	lowing)		
AMS 163/205 OR (AM	S 205-M1,		
AMS 205-M2, and AM	S 205-M3)	Architectural Drafting/CADD Manufact	3 hrs
*AMS 301		Intro to Food science and Technology	3hrs
*AMS 310 OR (AMS 3	10-M1,		
AMS 310-M2, and AM	S 310-M3)	Work Design/Ergonomics	3 hrs
*AMS 342 OR (AMS 3	42-M1,	G G	
AMS 342-M2, and AM	S 342-M3)	Manufacturing Operations	3 hrs
*AMS 352 OR (AMS 3	52-M1,		
AMS 352-M2, and AM	S 352-M3)	Food Processing: Unit Operations	3 hrs
*AMS 371 OR (AMS 3	71-M1,	•	
AMS 371-M2, and AM	S 371-M3)	Quality Assurance	3 hrs
*AMS 390 OR (AMS 3	90-M1,	•	
AMS 390-M2, and AM	S 390-M3)	Project Management	3 hrs
*AMS 430 OR (AMS 4	30-M1,		
AMS 430-M2, and AM	S 430-M3)	Technology Mgt/Sup/Team Bldg	3 hrs
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# 5. Budget implications:

Proposed method of staffing: Current faculty

Special equipment needed: None Expendable materials needed: None Laboratory materials needed: None

6. Proposed term for implementation: Fall 2	<i>2</i> 014	Fall	plementation:	for 1	term	posed	Pro	6.
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Architectural ar	nd Manufacturing	Sciences:	2-7-2014

OCSE Curriculum Committee	3-6-2014
Contact with Office of Academic Affairs	9/23/2013 – 2/17/2014
Undergraduate Curriculum Committee	3-27-2014
University Senate	
Board of Regents	

# Ogden College of Science and Engineering Department of Architectural and Manufacturing Sciences Proposal to Create a New Certificate Program (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

# 1. Identification of program:

- 1.1 Program title: Manufacturing Processing and Technology Certificate
- 1.2 Required hours in program: 12
- 1.3 Special information: This program prepares individuals to apply basic manufacturing processing and technology skills in support of industrial operations.
- 1.4 Catalog description: Focusing on the requirements and selection criteria for the integration of technology into simple and complex industrial activities.
- 1.5 Classification of Instructional Program Code (CIP): 15.0613

### 2. Objectives of the proposed certificate program:

**Employers**: Manufacturers in South Central Kentucky can find the workers they need to prosper, grow, and remain competitive in the global marketplace.

**Individuals**: Workers in the region have the knowledge and skills required to be productive in the manufacturing jobs of today, but also the critical thinking and innovation skills to advance in the manufacturing careers of tomorrow.

**Systems/Accountability**: Education and workforce systems are aligned with employer requirements and make both efficient and effective use of resources to achieve improved outcomes for both manufacturers and workers.

**Communications**: Enhanced communication efforts raise awareness of the value of manufacturing in the region and promote its high-wage career opportunities to potential workers.

#### 3. Rationale:

- 1.1 Reason for developing the proposed certificate program: To support the Chamber of Commerce's Urgent Call to Action to Support Manufacturing by developing a collaborative action plan, driven by regional manufacturers, with strategies that align education and training provider outputs with employer needs.
- 1.2 Relationship of the proposed certificate program to other programs now offered by the department: This is a portion of classes you would take for a degree option concentrating in the manufacturing processing and technology area to help student gain knowledge to fill the needs of employers.
- 1.3 Relationship of the proposed certificate program to certificate programs offered in other departments: There are no other certificate programs in any other departments dealing with the manufacturing field.
- 1.4 Projected enrollment in the proposed certificate program: 12-15 a semester
- 1.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): None

1.6 Relationship of the proposed certificate program to the university mission and objectives: The certificate program is consistent with WKU mission and objectives by creating new programs and strengthening its curriculum to improve the quality of life and economic well-being of the citizens of Kentucky.

## 4. Curriculum:

7. Culticulum.		
(Required 9 hours)		
*AMS 342 OR (AMS 342-M1,		
AMS 342-M2, and AMS 342-M3)	Manufacturing Operations	3 hrs
*AMS 371OR (AMS 371-M1,		
AMS 371-M2, and AMS 371-M3)	Quality Assurance	3 hrs
*AMS 396 OR (AMS 396-M1,		
AMS 396-M2, and AMS 396-M3)	Intro to Supply Chain Management	3 hrs
(Select 3 hours from following)		
AMS 217 OR (AMS 217-M1,		
AMS 217-M2, and AMS 217-M3)	Industrial Materials	3 hrs
AMS 227 OR (AMS 227-M1,		
AMS 227-M2, and AMS 227-M3)	Manufacturing Methods	3 hrs
*AMS 271	Industrial Statistics	3 hrs
*AMS 301	Intro to Food Science and Technology	3 hrs
AMS 343 OR (AMS 343-M1,		
AMS 343-M2, and AMS 343-M3)	Automated Systems	3 hrs
*AMS 352 OR (AMS 352-M1,		
AMS 352-M2, and AMS 352-M3)	Food Processing: Unit Operations	3 hrs
*AMS 356 OR (AMS 356-M1,		
AMS 356-M2, and AMS 356-M3)	Systems Design and Operation	3 hrs
AMS 370 OR (AMS 370-M1,		
AMS 370-M2, and AMS 370-M3)	Computer Numeric Control	3 hrs
AGMC 371/372	Agricultural Mechanics/ Lab	2/1hr

## 5. Budget implications:

Proposed method of staffing: Current faculty

Special equipment needed: None Expendable materials needed: None Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

7. Dates of prior committee approv	als:
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Architectural and Manufacturing Sciences:	2-7-2014
OCSE Curriculum Committee	3-6-2014_

Contact with Office of Academic Affairs	9/23/2013 – 2/17/2014
Undergraduate Curriculum Committee	3-27-2014_
University Senate	
Board of Regents	

# Ogden College of Science and Engineering Department of Architectural and Manufacturing Sciences Proposal to Create a New Certificate Program (Action Item)

Contact Person: Bryan Reaka bryan.reaka@wku.edu 270-745-7032

## 1. Identification of program:

- 1.1 Program title: Six Sigma and Quality Certificate
- 1.2 Required hours in program: 12
- 1.3 Special information: Industry offers substantial compensation to certified professionals. This holds true particularly for six sigma belts and lean certificate holders. Six sigma and lean principles have been applied successfully in business, engineering, health services, sciences, government, education, and media.
- 1.4 Catalog description: Covers concepts, principles, and skills related to six sigma, lean, and quality assurance.
- 1.5 Classification of Instructional Program Code (CIP): 15.0613

# 2. Objectives of the proposed certificate program:

**Employers**: Manufacturers in South Central Kentucky can find the workers they need to prosper, grow, and remain competitive in the global marketplace.

**Individuals**: Workers in the region have the knowledge and skills required to be productive in the manufacturing jobs of today, but also the critical thinking and innovation skills to advance in the manufacturing careers of tomorrow.

**Systems/Accountability**: Education and workforce systems are aligned with employer requirements and make both efficient and effective use of resources to achieve improved outcomes for both manufacturers and workers.

**Communications**: Enhanced communication efforts raise awareness of the value of manufacturing in the region and promote its high-wage career opportunities to potential workers.

### 3. Rationale:

- 3.1 Reason for developing the proposed certificate program: To support the Chamber of Commerce's Urgent Call to Action to Support Manufacturing by developing a collaborative action plan, driven by regional manufacturers, with strategies that align education and training provider outputs with employer needs.
- 3.2 Relationship of the proposed certificate program to other programs now offered by the department: This is a portion of classes you would take for a degree option concentrating in the six sigma and quality area to help student gain knowledge to fill the needs of employers.
- 3.3 Relationship of the proposed certificate program to certificate programs offered in other departments: There are no other certificate programs in any other departments dealing with the manufacturing field.
- 3.4 Projected enrollment in the proposed certificate program: 12-15 a semester
- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): None

3.6 Relationship of the proposed certificate program to the university mission and objectives: The certificate program is consistent with WKU mission and objectives by creating new programs and strengthening its curriculum to improve the quality of life and economic well-being of the citizens of Kentucky.

### 4. Curriculum:

(9 hours required) *AMS 271 *AMS 271 OR (AMS 271 M1)	Industrial Statistics	3 hrs
*AMS 371OR (AMS 371-M1, AMS 371-M2, and AMS 371-M3) *AMS 394 OR (AMS 394-M1,	Quality Assurance	3 hrs
AMS 394-M2, and AMS 394-M3)	Lean Manufacturing	3 hrs
(Select 3 hours from following) AMS 227 OR (AMS 227-M1,		
AMS 227-M2, and AMS 227-M3) *AMS 310 OR (AMS 310-M1,	Manufacturing Methods	3 hrs
AMS 310-M2, and AMS 310-M3) *AMS 342 OR (AMS 342-M1,	Work Design/Ergonomics	3 hrs
AMS 342-M2, and AMS 342-M3) *AMS 352 OR (AMS 352-M1,	Manufacturing Operations	3 hrs
AMS 352-M2, and AMS 352-M3) *AMS 356 OR (AMS 356-M1,	Food Processing: Unit Operations	3 hrs
AMS 356-M2, and AMS 356-M3) *AMS 390 OR (AMS 390-M1,	Systems Design and Operation	3 hrs
AMS 390-M2, and AMS 390-M3) *AMS 396 OR (AMS 396-M1,	Project Management	3 hrs
AMS 396-M2, and AMS 396-M3) *AMS 430 OR (AMS 430-M1,	Intro to Supply Chain Management	3 hrs
AMS 430-M2, and AMS 430-M3)	Technology Mgt/Sup/Team Bldg	3 hrs

# 5. Budget implications:

Proposed method of staffing: Current faculty

Special equipment needed: None Expendable materials needed: None Laboratory materials needed: None

## 6. Proposed term for implementation: Fall 2014

Architectural and Manufacturing Sciences:	2-7-2014
OCSE Curriculum Committee	3-6-2014
Contact with Office of Academic Affairs	9/23/2013 – 2/17/2014

Undergraduate Curriculum Committee	3-27-2014_
University Senate	
Board of Regents	

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

1.	Identification	of course
<b>-</b> .	aciiciicacioi	i oi coaisc

- 1.1 Current course prefix (subject area) and number: GEOG 419
- 1.2 Course title: GIS Programming

#### 2. Revise course prerequisites:

- 2.1 Current prerequisites: CS 170 and GEOG 317
- 2.2 **Proposed prerequisites**: CS 170, and GEOG 317 with a grade of "C" or higher; or permission of instructor.
- 2.3 **Rationale for revision of course prerequisites:** GEOG 419 covers more advanced topics that require students to have a solid understanding of the basic GIS concepts discussed in GEOG 317. A grade of C or better ensures that students have the requisite GIS knowledge.
- 2.4 Effect on completion of major/minor sequence: None

- **3.1** Current course catalog listing: Planning and implementing GIS within an organization. Designing and developing GIS applications to support spatial decision making. Course fee.
- **3.2 Proposed course catalog listing:** Learning the process of expanding GIS functionalities. Customizing a GIS system via computer programming.
- **3.3 Rationale for revision of course catalog listing:** The current GIS industry focuses more on developing customized GIS functions via computer programming. We have modified the course content to meet the new requirements of the GIS industry. The course covers a number of techniques and methods that GIS analysts use to develop customized GIS functionalities for solving real-world problems.
- 4. **Proposed term for implementation:** Spring 2015
- 5. Dates of prior committee approvals:

Department of Geography and Geology	<u>12/13/2013</u>	
OCSE Curriculum Committee	3/6/2014	
Undergraduate Curriculum Committee		
University Senate		

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

#### 1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 423
- 1.2 Course title: Transport, Location and GIS

#### 2. Revise course prerequisites:

- 2.1 **Current prerequisites:** GEOG 350 or permission of instructor
- 2.2 **Proposed prerequisites**: GEOG 317 with a grade of "C" or higher; or permission of instructor.
- 2.3 **Rationale for revision of course prerequisites:** The content of GEOG 423 has changed from transportation planning practices to the applications of GIS techniques in solving selected transport and urban problems. Students must learn basic GIS skills in GEOG 317 before taking GEOG 423.
- 2.4 Effect on completion of major/minor sequence: None

- **3.1 Current course catalog listing:** A critical examination of the problems of interaction, diffusion, and information transfer as they appear in a spatial context. Current research and planning needs are analyzed.
- **3.2 Proposed course catalog listing:** Explores selected issues related to urban applications of GIS. Develop analytical skills and knowledge in transportation, urban management, locational analysis, and business geography.
- **3.3 Rationale for revision of course catalog listing:** The content of GEOG 423 has changed from transportation planning practices to the applications of GIS techniques in solving selected transport and urban programs.
- 4. **Proposed term for implementation:** Spring 2015
- 5. Dates of prior committee approvals:

Department of Geography and Geology	12/13/2013
OCSE Curriculum Committee	3/6/2014
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

#### 1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 443
- 1.2 Course title: GIS Databases

#### 2. Revise course prerequisites:

- 2.1 **Current prerequisites**: CS 146 and GEOG 417, or instructor permission.
- 2.2 **Proposed prerequisites**: CS 170, and GEOG 417 with a grade of "C" or higher; or permission of instructor.
- 2.3 **Rationale for revision of course prerequisites:** GEOG 443 covers more advanced topics that require students to have a solid grasp of the topics covered in GEOG 417. Students have a higher rate of success in GEOG 443 if they have a grade of "C' or better in GEOG 417. CS 170 provides more appropriate preparation for GEOG 443.
- 2.4 Effect on completion of major/minor sequence: None

- **3.1 Current course catalog listing:** An introduction to the concepts and principles of GIS database planning, design, implementation, and administration. Focuses on state-of-the art GIS database software and spatial database engine software used in conjunction with relational database management systems. Course Fee.
- **3.2 Proposed course catalog listing:** The concepts and principles of GIS database planning, design, implementation, and administration. Focuses on the development of state-of-the art GIS databases.
- **3.3 Rationale for revision of course catalog listing:** The new description is more concise and describes better the course content.
- 4. **Proposed term for implementation:** Spring 2015
- 5. Dates of prior committee approvals:

Department of Geography and Geology	<u>12/13/2013</u>
OCSE Curriculum Committee	3/6/2014
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

#### 1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 477
- 1.2 Course title: Special Topics in GIS

#### 2. Revise course prerequisites:

- 2.1 Current prerequisites: GEOG 417 and GEOG 419
- 2.2 **Proposed prerequisites**: GEOG 417 and GEOG 443 with a grade of "C" or higher; or permission of instructor.
- 2.3 **Rationale for revision of course prerequisites:** The content of GEOG 417 and GEOG 443 has changed and become more specialized. Skills learned in GEOG 419 are not necessary any more as a prerequisite for this course. In addition, students have a higher rate of success in GEOG 477 if they have a grade of "C' or better in GEOG 417 and GEOG 443.
- 2.4 Effect on completion of major/minor sequence: None

#### 3. Revise course catalog listing:

- **3.1 Current course catalog listing:** Applications of Geographic Information Systems (GIS) technologies in selected fields, including urban & regional planning, environmental modeling, geology, transportation, locational analysis, criminology, public health, and internet GIS. Repeatable once for credit.
- **3.2 Proposed course catalog listing:** Applications of GIS technologies in selected technical areas such as 3D GIS and Enterprise GIS, or directed research of a elected domain-specific problem. Repeatable once for credit.
- **3.3** Rationale for revision of course catalog listing: The new description describes better the course content.
- 4. **Proposed term for implementation:** Spring 2015

Department of Geography and Geology	<u>12/13/2013</u>	
OCSE Curriculum Committee	<u>3/6/2014</u>	
	03/27/2014	
Undergraduate Curriculum Committee		
University Senate		

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Leslie North, 5-5982, leslie.north@wku.edu

#### 1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 485
- 1.2 Course title: Population and Resources

#### 2. Revise course title:

- 2.1 Current course title: Population and Resources
- 2.2 Proposed course title: Society, Resources, and Climate
- 2.3 Proposed abbreviated title: Society, Resources, Climate
- 2.4 Rationale for revision of course title: The proposed title reflects a focus on the reshaping of societies by resource and global climate change, and better fits the environmental sequence of courses in the geography major.

#### 3. Revise course number:

- 3.1 Current course number: GEOG 485
- 3.2 Proposed course number: GEOG 385
- 3.3 Rationale for revision of course number: The change in course number is part of a department-wide initiative to sequence more effectively course content and learning expectations for juniors and seniors.

#### 4. Revise course prerequisites:

- 4.1 Current prerequisites: None
- 4.2 Proposed prerequisites: GEOG 110 and GEOG 280
- 4.3 Rationale for revision of course prerequisites: These prerequisite courses provide the foundational content necessary for success in GEOG 385
- 4.4 Effect on completion of major/minor sequence: None. The prerequisites are required in the major program.

- 5.1 Current course catalog listing: The distribution of population and population characteristics are viewed against the background of the resources and cultures of the world.
- 5.2 Proposed course catalog listing: Discussion of global climate change from a societal and resource perspective. A basic understanding of global climate change and how humans

- affect such change by studying characteristics such as population size, natural resources, policy, personal behavior, and societal choices.
- 5.3 Rationale for revision of course catalog listing: This course listing more accurately describes the content.
- **6. Proposed term for implementation:** Spring 2015
- 7. Dates of prior committee approvals:

Department of Geography and Geology	<u>2/28/2014</u>
Ogden College Curriculum Committee	3/6/2014
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

# Ogden College of Science and Engineering Department of Geography and Geology Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Jun Yan, jun.yan@wku.edu, 270-7458952

#### 1. Identification of course:

- 1.1 Current course prefix (subject area) and number: GEOG 492
- 1.2 Course title: Advanced Spatial Analysis

#### 2. Revise course prerequisites:

- 2.1 Current prerequisites: GEOG 300, GEOG 391, and GEOG 417
- 2.2 **Proposed prerequisites**: GEOG 300, and GEOG 391 with a grade of "C" or better; or permission of instructor.
- 2.3 **Rationale for revision of course prerequisites:** GEOG 391 has a new prerequisite of GEOG 316, which prepares student with basic GIS skills for GEOG 492. In addition, students have a higher rate of success in GEOG 492 if they have a grade of "C' or better in GEOG 391.
- 2.4 Effect on completion of major/minor sequence: None

- **3.1 Current course catalog listing:** History and philosophy of spatial analysis. Applications of advanced spatial analytical techniques in an interactive GIS-based environment.
- **3.2 Proposed course catalog listing:** Applying advanced spatial analytical techniques in GIS environment. Quantitative analysis in Geosciences is emphasized.
- **3.3** Rationale for revision of course catalog listing: The new description describes better the course content.
- 4. **Proposed term for implementation:** Spring 2015
- 5. Dates of prior committee approvals:

Department of Geography and Geology	12/13/2013
OCSE Curriculum Committee	<u>3/6/2014</u>
	03/27/2014
Undergraduate Curriculum Committee	
University Senate	

# Potter College of Arts & Letters Department of Philosophy & Religion Proposal to Make Multiple Revisions to a Course (Action Item)

Contact Person: Eric Bain-Selbo, <u>eric.bain-selbo@wku.edu</u>, x55744 Jeffrey Samuels, <u>Jeffrey.samuels@wku.edu</u>, x55748

#### 1. Identification of course:

- 1.1 Current course prefix (subject area) and number: ARC 499
- 1.2 Course title: Senior Seminar

#### 2. Revise course title:

- 2.1 Current course title:
- 2.2 Proposed course title:
- 2.3 Proposed abbreviated title:
- 2.4 Rationale for revision of course title:

#### 3. Revise course number:

- 3.4 Current course number:
- 3.5 Proposed course number:
- 3.6 Rationale for revision of course number:

## 4. Revise course prerequisites/corequisites/special requirements:

- 4.1 Current prerequisites/corequisites/special requirements: (indicate which)
- 4.2 Proposed prerequisites/corequisites/special requirements:
- 4.3 Rationale for revision of course prerequisites/corequisites/special requirements:
- 4.4 Effect on completion of major/minor sequence:

- 5.4 Current course catalog listing: A capstone course designed for senior Asian religions and cultures majors. Students will complete projects that demonstrate their research, writing, and analytical skills. Content areas of the seminar will vary by semester and instructor.
- 5.5 Proposed course catalog listing: A capstone course designed for Asian Religions and Cultures majors. Students will complete projects that demonstrate their research, writing, and analytical skills.
- 5.6 Rationale for revision of course catalog listing: As the course is currently constructed, substantial content is combined with a kind of writing workshop approach. Students have substantial reading in a particular area of Asian studies while at the same time working on a significant final project—sharing and getting feedback on their work from the instructor and fellow students. After several

semesters of this approach, it is our determination that it would be better to strip the course of its focused content and run it more as a writing workshop only. This different approach will necessitate a change to the credit hours for the course (see below) and allow students to pursue another three credit elective in an area in which they have an interest (see separate revision to the major). Thus, in the catalog listing, we need to take out the last sentence referring to content areas.

- 6. Revise course credit hours:
  - 6.1 Current course credit hours: 3
  - 6.2 Proposed course credit hours: 1
  - 6.3 Rationale for revision of course credit hours: With the change of approach to the course (see above), the course will meet only once a week for an hour. This change in credit hours reflects the change in meeting time.
- 7. Revise grade type:
  - 7.1 Current grade type:
  - 7.2 Proposed grade type:
  - 7.3 Rationale for revision of grade type:
- **8. Proposed term for implementation:** Spring 2015
- 9. Dates of prior committee approvals:

Asian Studies Advisory Committee

February 10, 2014

Department of Philosophy and Religion

Potter College Curriculum Committee

Undergraduate Curriculum Committee

University Senate

February 10, 2014

March 6, 2014

03/27/2014

Proposal Date: 11/05/13

# Potter College of Arts & Letters Department of Theatre & Dance Proposal to Revise Course Credit Hours (Action Item)

Contact Person: Scott Stroot, <a href="mailto:scott.stroot@wku.edu">scott.stroot@wku.edu</a>, 745-6290

- 1. Identification of course:
  - 1.1 Current course prefix and number: DANC 314
  - 1.2 Course title: Styles Mus Thtr Dan I
  - 1.3 Credit hours: 2
- **2. Proposed course credit hours:** Repeatable for a total of 8 credit hours
- 3. Rationale for the revision of course credit hours: With more than 100 years of musical theatre dance history, the specific content (styles) of this course by necessity varies from semester to semester, and music theatre majors need the option to repeat the course to avail themselves of as many different styles of music theatre dance as they can manage in their progress to graduation.
- 4. **Proposed term for implementation:** Spring 2015
- **5.** Dates of prior committee approvals:

Department of Theatre and Dance: 12/03/13

Potter College Curriculum Committee: 3/6/2014

Undergraduate Curriculum Committee: 03/27/2014

University Senate:

**Attachment: Course Inventory Form**