Undergraduate Curriculum Committee
Western Kentucky University

Report to the University Senate:

Date: **29 August 2011**
From: **John White, Chair**

The Undergraduate Curriculum Committee submits the following items from the 29 August 2011 meeting for approval by the University Senate:

Information Item Report:

I. Delete a Course

II. Suspend a Course

III. Revise Course Prerequisites/Corequisites
ASTR 405, Astronomy for Teachers
PHYS 410, Physics for Teachers

IV. Revise a Program

V. Create a New Course

VI. Make Multiple Revisions to a Course

VII. Temporary Course

VIII. Revise Course Catalog Listing
ENG 465 Film Genres
JOUR 495 Collaborative Journalism
CHEM 330, Quantitative Analysis

IX. Revise Course Grading System

X. Revise an Academic Policy

XI. Delete a Program

XII. Revise a Course Number

XIII. Create an Equivalent Course

Consent Item Report:
I. Delete a Course

II. Suspend a Course

III. Revise Course Prerequisites/Corequisites

IV. Revise a Program
Ref. #754, Major in Physics

V. Create a New Course
PHYS 359, Clinical Optics

VI. Make Multiple Revisions to a Course

VII. Temporary Course

VIII. Revise Course Catalog Listing

IX. Revise Course Grading System

X. Revise an Academic Policy

XI. Revise Course Credit Hours

XII. Revise a Certificate Program

XIII. Create a New Minor Program

XIV. Revise a Course Number

XV. Revise a Course Title

XVI. Exception to an Academic Policy

Proposal Date: 12 April 2011

Potter College of Arts and Letters
Department of English
Proposal to Revise Course Catalog Listing
(Consent Item)

Contact Person: karen.schneider@wku.edu 5-3046

1. Identification of course:
- 1.1 Course prefix (subject area) and number: ENG 465
- 1.2 Course title: Film Genres
- 1.3 Credit hours: 3

2. Current course catalog listing: Study of the historical development, thematic and stylistic conventions, and cultural significance of film genre(s). Surveys representative films from one or two genres, e.g. film noir and the Western; romantic comedy and family melodrama; horror and science fiction; the musical; the war film; the epic.

3. Proposed course catalog listing: Study of the historical development, thematic and stylistic conventions, and cultural significance of film genre(s). Surveys representative films from one or two genres, e.g. film noir and the Western; romantic comedy and family melodrama; horror and science fiction; the musical; the war film; the epic. May be taken twice as long as genres differ.

4. Rationale for revision of the course catalog listing: The course normally focuses on entirely different subject matter from one semester to the next. Film majors and minors often desire the opportunity to study multiple genres.

5. Proposed term for implementation: 201210

6. Dates of prior committee approvals:

English Department:	__4/18/11_____
PCAL Curriculum Committee	__5/5/2011_____
Undergraduate Curriculum Committee	__08/25/2011_____
University Senate	_____

Attachment: Course Inventory Form

Proposal Date: April 27, 2011

Potter College of Arts & Letters
School of Journalism & Broadcasting
Proposal to Revise Course Prerequisites
(Consent Item)

Contact Person: Mac McKerral; mmckerral@wku.edu; 745-5882

1. Identification of course:
1.1 JOUR 495
1.2 Course title: Collaborative Journalism
1.3 Credit hours: 3

2. Current prerequisites/co-requisites/special requirements:
Prerequisites: JOUR 362 (photo majors); JOUR 325 (News/Editorial majors); BCOM 361 or 366 or 368 (Broadcasting majors); JOUR 443 (Ad majors); JOUR 358 (PR majors); or permission of sequence coordinator; and consent of the instructor or participation in iMedia certification.

3. Proposed prerequisites/co-requisites/special requirements:
Prerequisites: JOUR 362 (photo majors); JOUR 302 (News/Editorial); BCOM 361 or 366 or 368 (Broadcasting); JOUR 443 (Advertising); JOUR 358 (public relations); or permission of sequence coordinator; and consent of the instructor or participation in iMedia certification.

4. Rationale for the revision of prerequisites/co-requisites/special requirements:
JOUR 325 is not a required course in the Minor in News/Editorial Journalism Writing. JOUR 302 is required in both the major and minor. Replacing JOUR 325 as a pre-requisite will allow qualified students seeking the proposed minor in News/Editorial Journalism Writing to be eligible to take JOUR 495 Collaborative Journalism. This will allow qualified students the opportunity to take a class involving multi-platform delivery of news.

5. Effect on completion of major/minor sequence:
No impact on News/Editorial majors. The impact on students pursuing the proposed minor is explained above.

6. Proposed term for implementation: Fall 2012

7. Dates of prior committee approvals:

SJ&B Curriculum Committee: __April 28, 2011_____

School of Journalism & Broadcasting: __April 29, 2011_____

Potter College Curriculum Committee: __May 5, 2011_____

Undergraduate Curriculum Committee __08/25/2011_____

University Senate _____

Attachment: Course Inventory Form

Proposal Date: April 19, 2011

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

Contact Person: Cathleen Webb, cathleen.webb@wku.edu, 5-3786

1. Identification of course:

1.4 Course prefix (subject area) and number: CHEM 330
1.5 Course title: Quantitative Analysis
1.6 Credit hours: 5

2. Current course catalog listing: Prerequisites: CHEM 222-223 with a grade of "C" or better. A study of the common techniques and theory of gravimetric, volumetric, electrochemical, and optical methods of analysis. Lecture, 3 hours; laboratory, 2 hours. Laboratory meets four and one-half hours per week. (Course fee)

3. Proposed course catalog listing: Prerequisites: CHEM 222-223 with a grade of "C" or better. A study of the common techniques and theory of gravimetric, volumetric, electrochemical, and optical methods of analysis. Lecture, 3 hours; laboratory, 2 hours. Laboratory meets four and one-half hours per week. Priority for registration for this course will be given to rising sophomores and rising juniors. (Course fee)

4. Rationale for revision of the course catalog listing: This course is required for chemistry majors and is a pre-requisite for the physical chemistry courses that are also required courses. As physical chemistry is required for other upper division chemistry courses, Chemistry 330 is a vital gateway course. Thus, it is important for chemistry majors to take the course in the sophomore or junior year. Consequently, rising sophomore and juniors are given registration priority. This policy has been in effect for the past six years and is currently listed in the catalog description for the Department of Chemistry in three locations. However, the course description is being revised to ensure that students who need the course will absolutely know to take it as sophomores or juniors. The dean has requested that this change be added to the catalog even though this information is not typically included in the course catalog.

5. Proposed term for implementation: Spring 2012

6. Dates of prior committee approvals:

Chemistry Department:	April 22, 2011
OCSE Curriculum Committee	May 5, 2011
Professional Education Council	May 11, 2011

Undergraduate Curriculum Committee __08/25/2011_____

University Senate _____

Attachment: Course Inventory Form

Proposal Date: 16 March 2011

Ogden College of Science and Engineering
Department of Physics and Astronomy
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Michael Carini, mike.carini@wku.edu, 745-6198

1. Identification of course:

1.1	Course prefix (subject area) and number:	ASTR 405
1.2	Course title:	Astronomy for Teachers
1.3	Credit hours:	3

2. Current prerequisites/corequisites/special requirements:
ASTR 104 or ASTR 106 or ASTR 108 or ASTR 214

3. Proposed prerequisites/corequisites/special requirements:
ASTR 104 or ASTR 106 or ASTR 214

4. Rationale for the revision of prerequisites/corequisites/special requirements:
Each of the three courses remaining as options for the pre-requisite for ASTR 405 includes an integrated laboratory component that reinforces hands-on experiences important for elementary, middle grades, or secondary school teaching. ASTR 108 does not include any laboratory component.

5. Effect on completion of major/minor sequence:
None; ASTR 405 is a course only for middle school science majors and potentially for students working toward a masters degree such as the MAE or MAT. The remaining options for the pre-requisite include other courses required for those majors.

6. Proposed term for implementation: Spring 2012

7. Dates of prior committee approvals:

Physics and Astronomy Department: _16 March 2011_____

Ogden College Curriculum Committee: _07 April 2011_____

Professional Education Council: 05 May 2011

Undergraduate Curriculum Committee: 08/25/2011

University Senate: _____

Attachment: Course Inventory Form

Proposal Date: 16 March 2011

Ogden College of Science and Engineering
Department of Physics and Astronomy
Proposal to Revise Course Prerequisites/Corequisites
(Consent Item)

Contact Person: Michael Carini, mike.carini@wku.edu, 745-6198

1. Identification of course:

1.1	Course prefix (subject area) and number:	PHYS 410
1.2	Course title:	Physics for Teachers
1.3	Credit hours:	3

2. Current prerequisites/corequisites/special requirements:
PHYS 105 or PHYS 201 or PHYS 231 or PHYS 255

3. Proposed prerequisites/corequisites/special requirements:
PHYS 201 or PHYS 231 or PHYS 255

4. Rationale for the revision of prerequisites/corequisites/special requirements:
Students enrolling in PHYS 410 should have enough of a foundation in physics to be able to concentrate on how to apply the content as teachers. The three courses remaining as options for the prerequisite are all similar; each is a course that focuses on motion, forces, and energy of mechanical systems and each is the first course of a two-course sequence. PHYS 105 does not deal with the same content and does not provide the same preparation as the other three courses.

5. Effect on completion of major/minor sequence:
None; PHYS 410 is a course for physics majors seeking secondary teacher certification and for middle school science majors. The remaining options for the pre-requisite include other courses required for those majors.

6. Proposed term for implementation: Spring 2012

7. Dates of prior committee approvals:

Physics and Astronomy Department: 16 March 2011

Ogden College Curriculum Committee: _05 May 2011_____

Professional Education Council: _11 May 2011_____

Undergraduate Curriculum Committee: _08/25/2011_____

University Senate: _____

Attachment: Course Inventory Form

Proposal Date: March 16, 2011

Ogden College of Science and Engineering
Department of Physics and Astronomy
Proposal to Revise a Program
(Action Item)

Contact Person: Keith Andrew, Keith Andrew@wku.edu, 745-4357

1. Identification of program:

1.7 Current program reference number: 754
1.8 Current program title: Major in Physics
1.9 Credit hours: 35

2. Identification of the proposed program changes:

- Require PHYS 316 (Computational Physics) or PHYS 318 (Data Acquisition Using LabView) in the physics core.
- Reduce the number of physics elective hours from nine to six.
- Remove the computer science course from the list of required support courses.
- Add MATH 370 for applied physics students as an option for MATH 307 in the list of required support courses

3. Detailed program description:

<table>
<tr><td>Current Program</td><td>Proposed Program
(changes are indicated in boldface)</td></tr>
<tr><td>Physics Core</td><td>Physics Core</td></tr>
<tr><td>
<table>
<tr><th></th><th>Hrs</th><th>Course</th><th>Title of Course</th></tr>
<tr><td>Core:</td><td>3/1</td><td>PHYS 180/181</td><td>Introductory Modern Physics & Lab</td></tr>
<tr><td></td><td>4/1</td><td>PHYS 255/256</td><td>University Physics I and Lab</td></tr>
<tr><td></td><td>4/1</td><td>PHYS 265/266</td><td>University Physics II and Lab</td></tr>
<tr><td></td><td>1</td><td>PHYS 301</td><td>Electrical Measurements Lab</td></tr>
<tr><td></td><td>1</td><td>PHYS 302</td><td>Atomic Lab</td></tr>
<tr><td></td><td>3</td><td>PHYS 321</td><td>Introductory Modern Physics II</td></tr>
<tr><td></td><td>3</td><td>PHYS 350</td><td>Classical Mechanics I</td></tr>
<tr><td></td><td>3</td><td>PHYS 440</td><td>Electromagnetism I</td></tr>
<tr><td></td><td>0.5</td><td>PHYS 398</td><td>Junior Seminar</td></tr>
<tr><td></td><td>0.5</td><td>PHYS 498</td><td>Senior Seminar</td></tr>
<tr><td></td><td>26 hrs</td><td></td><td></td></tr>
<tr><td>Electives:</td><td>9</td><td>PHYS/ASTR</td><td>Upper Division Electives</td></tr>
<tr><td>Total</td><td>35 hrs</td><td></td><td></td></tr>
</table>
</td><td>
<table>
<tr><th>Hrs</th><th>Course</th><th>Title of Course</th></tr>
<tr><td>Core: 3/1</td><td>PHYS 180/181</td><td>Introductory Modern Physics & Lab</td></tr>
<tr><td>4/1</td><td>PHYS 255/256</td><td>University Physics I and Lab</td></tr>
<tr><td>4/1</td><td>PHYS 265/266</td><td>University Physics II and Lab</td></tr>
<tr><td>1</td><td>PHYS 301</td><td>Electrical Measurements Lab</td></tr>
<tr><td>1</td><td>PHYS 302</td><td>Atomic Lab</td></tr>
<tr><td>3</td><td colspan="2">PHYS 316 or 318 Computational or Data Acquisition</td></tr>
<tr><td>3</td><td>PHYS 321</td><td>Introductory Modern Physics II</td></tr>
<tr><td>3</td><td>PHYS 350</td><td>Classical Mechanics I</td></tr>
<tr><td>3</td><td>PHYS 440</td><td>Electromagnetism I</td></tr>
<tr><td>0.5</td><td>PHYS 398</td><td>Junior Seminar</td></tr>
<tr><td>0.5</td><td>PHYS 498</td><td>Senior Seminar</td></tr>
<tr><td>29 hrs</td><td></td><td></td></tr>
<tr><td>Electives: 6</td><td>PHYS/ASTR</td><td>Upper Division Electives</td></tr>
<tr><td>Total 35 hrs</td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>Physics Electives</td><td>Physics Electives</td></tr>
<tr><td>The student majoring in physics must complete, in addition to this core, a minimum of 9 semester hours of selected upper division departmental courses. The selection is determined by the student's career aspirations, subject to approval by the student's departmental advisor. The upper division electives must be chosen from the courses listed for departmental majors and minors, excluding PHYS 389, 399, and 489. No more than 3 hours of PHYS 475 may be counted toward the 35 hour minimum requirement for the major.</td><td>The student majoring in physics must complete, in addition to this core, a minimum of 6 semester hours of selected upper division departmental courses. The selection is determined by the student's career aspirations, subject to approval by the student's departmental advisor. The upper division electives must be chosen from the courses listed for departmental majors and minors, excluding PHYS 389, 399, and 489. No more than 3 hours of PHYS 475 may be counted toward the 35 hour minimum requirement for the major.</td></tr>
<tr><td>Support Courses for Major:</td><td>Support Courses for Major:</td></tr>
<tr><td>Support requirements include MATH 136, 137, 307, 237, and 331, Computer Science 230 or higher, and CHEM 120/121.</td><td>Support requirements include: MATH 136, 137, 237, 307 (or 370 for applied physics track), and 331; and CHEM 120/121. (Note: PHIL 215 or EE 180 is a prerequisite for MATH 307).</td></tr>
<tr><td></td><td></td></tr>
</table>

4. Rationale for the proposed program change:

Adding PHYS 316 or PHYS 318 to the major provides students with experience in the use of physics-specific computer applications in a physics setting from either the applied problem-solving approach or from the data acquisition and interfacing approach. With the addition of the required three-hour physics course, the number of physics elective hours is reduced from nine to six.

Because a computer applications physics course (PHYS 316 or 318) is being added to the core requirements, the computer science course is being deleted from the list of required support courses. Of course, students may still choose a CS course as an elective elsewhere in their programs.

For students in the applied physics track the new MATH 370 course (Applied Techniques in Mathematics), which deals with applying mathematical techniques such as matrix methods and

Fourier series to solve specific problems, provides an option that is exactly aligned with the goals of the applied emphasis of the applied physics track. As such it serves as an excellent alternative to the MATH 307 (Introduction to Linear Algebra) course.

5. Proposed term for implementation and special provisions (if applicable):

Fall 2012

6. Dates of prior committee approvals:

Department of Physics and Astronomy:	_March 16, 2011____
OCSE Curriculum Committee	_April 7, 2011_____
Professional Education Council	_May 11, 2011_____
University Curriculum Committee	_August 08, 2011____
University Senate	_____

Attachment: Program Inventory Form

Proposal Date: April 12, 2011

Ogden College of Science and Engineering
Department of Physics & Astronomy
Proposal to Create a New Course
(Action Item)

Contact Person: Wieb van der Meer, wieb.vandermeer@wku.edu, 5-6205

1. Identification of proposed course:

1.10 Course prefix and number: PHYS 359
1.11 Course title: Clinical Optics
1.12 Abbreviated course title: Clinical Optics
1.13 Credit hours and contact hours: 4
1.14 Type of course: C
1.15 Prerequisites: PHYS 332, PHYS 233
1.16 Course catalog listing: The optics of the human eye and of corrective lenses for common eye defects.

2. Rationale:

2.1 Reason for developing the proposed course: Students in several pre-health professional programs will benefit from a course in optics that goes beyond the optics in introductory physics courses.
2.2 Projected enrollment in the proposed course: 10-15 students per offering based on previous enrollment in upper level biophysics courses.

2.3 Relationship of the proposed course to courses now offered by the department: PHYS 441 is also a course about optics but does not cover the optics of the human eye. There is almost no overlap between PHYS 441 and PHYS 359.

2.4 Relationship of the proposed course to courses offered in other departments: No course in clinical optics is offered in any other academic unit.

2.5 Relationship of the proposed course to courses offered in other institutions: Optometry schools have courses in clinical optics but undergraduate courses are not available at most Universities in the United States. This course will provide WKU's pre-health professionals with a unique background in optics.

3. Discussion of proposed course:

3.1 Course objectives: Upon completion of this course students will understand the principles of geometric optics and its application to human vision.

3.2 Content outline:

- Properties of light and visual function
- Reflection and refraction of light, polarization and dispersion
- Curved mirrors
- Prisms, spherical and cylindrical lenses
- Optometric prescriptions
- Optics of the human eye
- Ametropica and presbyoptia
- Optical instruments

3.3 Student expectations and requirements:
Performance will be evaluated based upon exams, participation in laboratory activities, and written laboratory reports.

3.4 Tentative texts and course materials: "Clinical Optics" T.E. Fannin and Th. Grosvenor, Butterworth-Heinemann, Boston, 1996.

4. Resources:

4.1 Library resources: See attached library resource form and bibliography.

4.2 Computer resources: No new additional resources required.

5. Budget implications:

5.1 Proposed method of staffing: Existing faculty will teach 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: Spring 2012

7. Dates of prior committee approvals:

Department of Physics & Astronomy: _April 27, 2011_____

OCSE Curriculum Committee	_May 5, 2011_____
Undergraduate Curriculum Committee	_August 25, 2011____
University Senate	_____

Attachment: Bibliography, Library Resources Form, Course Inventory Form