Agenda
Campus Curricula Committee Meeting
October 5, 2010 Meeting
3:20 p.m. Room 117 Fulton Hall

Review of submitted DC forms:
DC 0369, Economics, Bachelor of Science, effective Fall 2011. A proposal to modify the current curriculum for the Bachelor of Science in Economics.

DC 0370, Biological Science, Bachelor of Science, effective Fall 2011. A proposal to modify the current curriculum for the Bachelor of Science in Biological Sciences.

Review of submitted CC forms:
CC 8036, History 331, Nazism & Holocaust, effective Spring 2011.


CC 8060, Geological Engineering 207, Geology and Engineering of Ancient and Modern Peru, effective Spring 2011.

CC 8061, Biological Sciences 470, Advanced Toxicology, effective Spring 2011.

CC 8063, Chemical Engineering 446, Molecular Modeling and Simulation, effective Spring 2011.


Review of submitted EC forms:
EC 2282, Biological Sciences 201, Issues in Public Health, effective Spring 2011.


EC 2286, Philosophy 201, Ancient and Medieval Philosophy, effective Summer 2011.
Tabled Items:
EC 2268, Education 301, Improving Student Achievement in Elementary Mathematics, effective Spring 2011. Tabled

EC 2269, Education 301, Differentiated Instruction, effective Spring 2011. Tabled

EC 2270, Education 301, Transition from School to Post Secondary Placement, effective Spring 2011. Tabled

EC 2271, Education 301, Reaching Students From Poverty, effective Spring 2011. Tabled

CC 8004, Aerospace Engineering 319, Advanced Thermodynamics. Tabled

CC 8017, Finance 490, Graduate Research, effective Fall 2010. Tabled

New Business:
Revise wording on EC form.
Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Economics BS

Department: Economics

Briefly describe action requested (Attach documentation as appropriate):
Modify Econ BS Degree (and DARS / CAPS Report) with the following changes:
1) Section 12:
   Replace M&IS 397 (3 credit hours) Capstone Course with the following 2 courses:
   BUS 397 (1 credit hour) Senior Business Design I
   BUS 398 (2 credit hours) Senior Business Design II
   (to reflect changes made to the Capstone Course by the Business Department)
2) Section 13*:
   Remove IS&T 151 and IS&T 286
   (intermediate courses no longer required) — increase Free electives to 19 hrs
   *Change heading hours from 12 hrs to 6 hrs to reflect this change.
3) Section 14:
   Replace Bus Law 230 with Fin 250.
4) Section 18 (Econ Emphasis Courses)
   Sub-requirement 1: add 'Econ 260'.
   Sub-requirement 2: add '2** or'. — any 200 level business course
5) Add 'must receive "C" or better' stipulation to the following Econ courses:
   Econ 121, Econ 122, Econ 221, Econ 222, and Econ 211.

Recommended by Department: [Signature]
Date: 7/6/10

Recommended by: [Signature]
Discipline Specific Curricula Committee
Date: 9/2/10

Approved by Curricula Committee: [Signature]
Date: ______

Approved by Faculty Senate: [Signature]
Date: ______

07/01/10
(Revised 1/31/2008)
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Economics students must earn the grade of "C" or better in all Economics and Finance courses to receive credit toward graduation.

1In-Major Writing Intensive
2Electives 18 hours of which 12 hours must be Economics to be selected from Econ 223, Econ 230 or any 300 level Econ Lecture course and accumulate 6 hours from the following Psych 212, Psych 372, Psych 374 or any one 300 level Business Lecture courses.

**Minor in Economics**

Students majoring in other disciplines are encouraged to develop a minor in economics. The formal minor in economics is designed to provide students with a solid understanding of economic principles and concepts and the ability to apply this knowledge to a host of economic, public policy and business problems. This program will be of particular benefit to those students whose major field of study may lead them to pursue a management position or later graduate studies in business.

The minor in economics requires the completion of a minimum of 15 hours of economics course work with a grade of "C" or better. Required courses in the minor program include both Economics 121 and 122 and at least one of the intermediate theory courses, Economics 221 and/or Economics 222. The choice of which intermediate theory course depends on which 300 level economic electives the student, in consultation with the department's minor advisor, selects for their program.

**Energy/Technology Minor**

(15 hours)

Required courses:
- Econ 121-Principles of Microeconomics
- Econ 122-Principles of Macroeconomics
- Econ 221-Intermediate Microeconomics Theory

And 6 hours from:
- Econ 311-Econometrics
- Econ 335-Cost Benefit Analysis
- Econ 340-Environmental & Natural Resource Economics
- Econ 345-Energy Economics

**International Economics Minor**

(15 hours)

Required courses:
- Econ 121-Principles of Microeconomics
- Econ 122-Principles of Macroeconomics
- Econ 222-Intermediate Macroeconomics Theory

And 6 hours from:
- Econ 322-International Trade
- Econ 351-Economic Development
- Econ 360-Comparative Economic Systems

**Economics Courses**

100 Special Problems (IND 1.0-6.0) Problems or readings on specific subjects or projects in the department. Prerequisite: Consent of instructor required.

101 Special Topics (Variable 0.0-6.0) This course is designed to give the department an opportunity to test a new course. Variable title.
**FRESHMAN YEAR**

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Econ 260 or any 300 level Econ Lecture course and accumulate 6 hours from the following Psych 212, Psych 372, Psych 374 or any 200 or 300 level Business Lecture courses.

- Economics 220; English 215, 230, 281, 345, 350, Foreign Language Beyond Second Semester; History 340, 355; Philosophy 25, 35, 75, 212, 340, 355; Any Political Science; Psychology 270, 360; Any Sociology; Speech 235

A grade of "C" or better is required for Econ 121, 122, 221, 222, and Econ 211.

**Minor in Economics**

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**(15 hours)**

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**International Economics Minor**

**(15 hours)**

**Required courses:**
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And 6 hours from:
- Econ 322-International Trade
- Econ 351-Economic Development
- Econ 360-Comparative Economic Systems

**Economics Courses**

100 Special Problems (IND 1.0-6.0)Problems or readings on specific subjects or projects in the

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*Footnote necessary?*

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**CURRENT**

**NEEDS: 2 COURSES**

**NOOPT MINOR REQUIREMENT:** A minor will be selected from any discipline other than the major with the approval of the student's advisor (12 - 15 hrs)

**NEEDS:**

1. **15.0 HOURS**
2. **SELECT FROM: MINOR**

**NO 8 MINSIMUM OF 120 HRS REQUIRED (ADDITIONAL HOURS MAY BE NEEDED TO SATISFY ALL REQUIREMENTS BELOW)**

**NEEDS:**

1. **6.0 HOURS**
2. **2.000 GPA**

**NOOPT SCHOOL REQUIREMENTS INCLUDE A 2.00 IN MAJOR FIELD OF STUDY**

**NO 10 NATURAL SYSTEMS (13 HRS)**

**NEEDS:**

1. **GENERAL PSYCHOLOGY**
   - **3.0 HOURS**
   - **SELECT FROM: PSYCH**
2. **SELECT FROM: BIO SCI 110, 211, 235, 251**
3. **2 COURSE**
4. **SELECT FROM: MATH**
5. **3.0 HOURS**
   - **SELECT FROM: CHEM**
   - **1, 5, 10**
   - **GEOL 51 OR GEOL 52**
   - **52 PHYSICS 4, 6, 7, 8, 10, 22, 24**
6. **LAB WITH LIVING OR PHYSICAL COURSE**
   - **1 COURSE**
   - **SELECT FROM: BIO SCI 113, 211, 215**
   - **5 GEOL 52 PHYSICS 5, 8, 10, 22, 24**
   - **GEOL 51 OR GEOL 52**

**NO 11 HUMAN INSTITUTIONS (12 HRS)**

**NEEDS:**

1. **3.0 HOURS**
2. **SELECT FROM: HIST 111, 112, 175, 176**
3. **MACROECONOMICS**
   - **3.0 HOURS**
   - **SELECT FROM: FISC SCI 250**
4. **AMERICAN GOVERNMENT (WILLIAMS LAW)**
   - **3.0 HOURS**
   - **SELECT FROM: FISC SCI 30**
5. **4 COURSES**
6. **3.0 HOURS**

**CONTINUED ON COLUMN 2 PAGE 2**

**DEGREE AUDIT PRODUCED FOR:** WARNING

**Registrar’s Office**

**125 Parker Hall**

**MISSOURI STATE**

**THIRD PARTY**
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| Registrar's Office 103 Parker Hall Missouri 857 Third Party | ** WARNING **

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### Proposed

#### Needs: 2 Courses

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<th><strong>NEEDS</strong></th>
<th><strong>5</strong></th>
<th><strong>SUB-COURSES</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>1)</strong></td>
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<tr>
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**NATURAL SYSTEMS (15 HRS):**

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<th><strong>SUB-COURSES</strong></th>
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<tbody>
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<td>5 SUB-COURSES</td>
</tr>
<tr>
<td>SELECT FROM:</td>
<td>BIO SCI 110, 231, 235, 235</td>
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<table>
<thead>
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<th><strong>SUB-COURSES</strong></th>
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<tbody>
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<tr>
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<th><strong>SUB-COURSES</strong></th>
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<tbody>
<tr>
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<td>3.0 HOURS</td>
<td>5 SUB-COURSES</td>
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<tr>
<td>SELECT FROM:</td>
<td>CHEM 1, 5, 10</td>
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<tr>
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<tr>
<td>GEO ENG 50 OR GEO ENG 50 PHYS 4, 6, 7, 9, 11, 21, 23</td>
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<table>
<thead>
<tr>
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<th><strong>SUB-COURSES</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1)</strong></td>
<td>3.0 HOURS</td>
<td>5 SUB-COURSES</td>
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<tr>
<td>SELECT FROM:</td>
<td>BIO SCI 112, 211 CHEM 2, 4, 5 GEOL 52 PHYS 5, 6, 10, 22, 24 GEOLOGY 51 OR GEO ENG 51</td>
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<td>3.0 HOURS</td>
<td>4 SUB-COURSES</td>
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<td>SELECT FROM:</td>
<td>HISTORY 111, 212, 275, 176</td>
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<tr>
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<td>4 SUB-COURSES</td>
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<tr>
<td>SELECT FROM:</td>
<td>MACROECONOMICS 5 SUB-COURSES</td>
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<tr>
<td>SELECT FROM:</td>
<td>AMERICAN GOVERNMENT 5 SUB-COURSES</td>
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**HUMAN INSTITUTIONS (12 HRS):**

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<tr>
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<tbody>
<tr>
<td><strong>1)</strong></td>
<td>3.0 HOURS</td>
<td>4 SUB-COURSES</td>
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<tr>
<td>SELECT FROM:</td>
<td>FRENCH 1, 2 GERMAN 1</td>
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**Degree Audit Produced For:**

<table>
<thead>
<tr>
<th><strong>Registrar's Office</strong></th>
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<tbody>
<tr>
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<table>
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<th>Column 4</th>
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<td>RUSSIAN 1, SPANISH 1, 2</td>
<td>ECON 220 ENGLISH 215, 230, 282, 365, 365, 390</td>
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<td>PSYCHO 225, 355, 372, 412, 360, 365</td>
<td>SELECT FROM ECON 211</td>
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<tr>
<td>SOCIOLOGY 226, 235, 255, 355, 365</td>
<td>SELECT FROM ECON 223, 230, 355</td>
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<tr>
<td>GERMAN 223 SPANISH 360, 380</td>
<td>SELECT FROM ECON 212</td>
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<tr>
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### NO 12 CAPSTONE COURSE
- Needs:
  - 1) 3.0 Hours
    - Select From: MIS 397

### NO 13 INFORMATION TECHNOLOGY (6 HRS)
- Sub-Groups:
  - 1) Implementing Information Systems: User Perspective
    - Needs: 3.0 Hours
      - Select From: YAT 51
  - 2) Implementing Information Systems: Data Perspective
    - Needs: 3.0 Hours
      - Select From: YAT 151
  - 3) Intro to Management Information Systems
    - Needs: 3.0 Hours
      - Select From: MIS 50
  - 4) Web and Digital Media Development
    - Needs: 3.0 Hours
      - Select From: YAT 296

### NO 14 MANAGEMENT (12 HRS)
- Sub-Groups:
  - 1) Financial Accounting
    - Needs: 3.0 Hours
      - Select From: BUS 120
  - 2) Microeconomics
    - Needs: 3.0 Hours
      - Select From: ECON 121
  - 3) Mgt & Organizational Behavior
    - Needs: 3.0 Hours
      - Select From: BUS 210
  - 4) Business Law
    - Needs: 3.0 Hours
      - Select From: BUS 230

### NO 15 QUANTITATIVE SKILLS (7 HRS)
- Sub-Groups:
  - 1) Business Calculus
    - Needs: 4.0 Hours
      - Select From: MATH 12
  - 2) Statistics
    - Needs: 3.0 Hours
      - Select From: STAT 211

### NO 16 COMMUNICATION SKILLS (6 HRS)
- Sub-Groups:
  - 1) Communication Theory
    - Needs: 3.0 Hours
      - Select From: SPAN S 121
  - 2) Practicum in Technical Communication
    - Needs: 3.0 Hours
      - Select From: ENGLISH 260 or COMM 260

### NO 17 ECONOMIC CORE (9 HRS)
- Sub-Groups:
  - 1) Intermediate Micro ECON
    - Needs: 3.0 Hours
      - Select From: ECON 221
  - 2) Intermediate Macro ECON
    - Needs: 3.0 Hours
      - Select From: ECON 222

---

**Add "C" or better stipulation to:**
- Econ 121
- Econ 122
- Econ 221
- Econ 222
- Econ 211
Huffman, Angie L.

From: Scott, Marcy L.
Sent: Tuesday, July 13, 2010 10:34 AM
To: Huffman, Angie L.
Subject: RE: pdf649f8.pdf

Angie,

On the proposed catalog page, you can nix that footnote you circled with the question mark (I believe that is left over from when we were part of the Bus School).

In column 2 after Psych 374, you should remove the word 'one' and it should be 'any 200 or 300 level Business lecture courses'.

Honestly, superscript 2 shouldn't begin with the word 'Electives' because it's really Econ emphasis. The way it reads before makes it easily confused with the Free Electives. Could it be changed to 'Economics emphasis electives, 18 hours of which 12 . . . '?

Thanks Ang, you're a lifesaver!

~marcy

---

From: Huffman, Angie L.
Sent: Tuesday, July 13, 2010 10:02 AM
To: Scott, Marcy L.
Subject: pdf649f8.pdf

Marcy,

You can take a look at the changes I made off the DC form.

Angie
Effective Year: 2011
Effective Term: Summer □ Fall ☑ Spring □
(Creating or modifying a degree program must be effective for a Fall term)

Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:
Bachelor of Science, Biological Sciences

Department: Biological Sciences

Briefly describe action requested (Attach documentation as appropriate):
We are changing our curriculum to alter the math requirement of our majors. We now state that
math through calculus (Math 8 or 14) is required, but we no longer state that 10 hours of math are
required. Given that many students come in with college or AP credit from high school, they need
to take fewer hours of math. The key requirement remains the same: completion of math through
calculus.

Please note the minor changes (in red) on the following page.

Recommended by Department:

(Chair signature)

Date: 8/23/10

Recommended by:

Discipline Specific Curricula Committee

(Chair signature)

Date: 9/10/2010

Approved by Curricula Committee:

(Chair signature)

Date: 

Approved by Faculty Senate:

(Chair signature)

Date: 

08/18/10

(Revised 1/31/2008)
Bachelor of Science
Biological Sciences
Degree Requirements

A minimum of 130 credit hours is required for a Bachelor of Science degree in Biological Science and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for basic ROTC. The Biological Science B.S. degree must include 46 semester hours of biological sciences course work, to include:

Bio Sc 102-Intro to Bio Sc .......................... 1
Bio 110-Gen Bio or Bio Sc 111-Princ Bio .......... 3
Bio Sc 112-Gen Bio Lab ................................ 2
Bio Sc 113-Biodiversity ................................ 3
Bio Sc 114-Biodiversity Lab .......................... 1
Bio Sc 211-Cellular Biology .......................... 3
Bio Sc 212-Cellular Biology Lab ......................... 1
Bio Sc 221-Microbiology .............................. 3
Bio Sc 222-Microbiology Lab .......................... 2
Bio Sc 231-General Genetics ........................... 3
Bio Sc 251-Ecology .................................... 3
Bio Sc 310-Seminar ..................................... 1

Advanced biological sciences or approved course work in other departments for a total of 46 credit hours of biology-related classes .............................................. 20

22 semester hours of chemistry to include:
Chem 1,2,3, & 4 (General chemistry) ............... 9
Chem 221, 225, 223, 228 (Org Chem and labs) .... 10
Chem 361 (Biochemistry) .............................. 3

2 semesters of College (General) Physics and labs
Phys 31 (21), 22, 35 (25), 26 .......................... 8 (10)

Calculus: Math 8 (or Math 14) .......................... 5 (4)

12 semester hours of humanities, excluding foreign language, and to include: English 20 (entering students will normally take English 20 either semester of the first year) and English 60 ............................. 12

9 semesters hours of social sciences, to include Hist 112 or 175 or 176 or Pol Sc 90, or equivalent .... 9

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 130 credit hours. A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.
Bachelor of Science
Biological Sciences
Degree Requirements

A minimum of 130 credit hours is required for a Bachelor of Science degree in Biological Science and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for basic ROTC. The Biological Science B.S. degree must include 46 semester hours of biological sciences course work, to include:

Bio Sc 102-Intro to Bio Sc ..................1
Bio 110-Gen Bio or Bio Sc 111-Princ Bio ..........3
Bio Sc 112-Gen Bio Lab ....................2
Bio Sc 113-Biodiversity ....................3
Bio Sc 114-Biodiversity Lab .................1
Bio Sc 211-Cellular Biology ................3
Bio Sc 212-Cellular Biology Lab .............1
Bio Sc 221-Microbiology ...................3
Bio Sc 222-Microbiology Lab ...............2
Bio Sc 231-General Genetics ...............3
Bio Sc 251-Ecology .........................3
Bio Sc 310-Seminar .........................4

Advanced biological sciences or approved course work in other departments for a total of 46 credit hours of biology-related classes ..................20

20 semester hours of chemistry to include general chemistry (Chem 1,2,3, & 4) ..................9
Chem 221, 226, 223, 228-Org Chem ..........8
Chem 361 General Biochemistry ............3

2 semesters of College (General) Physics and labs
Phys 31 (21), 22, 35 (25), 268 ...............(10)

The Math/Statistics requirement will be a minimum of 10 credit hours with a requirement for Math 8 or Math 14.

12 semester hours of humanities, excluding foreign language, and to include: English 20 (entering students will normally take English 20 either semester of the first year) and English 60 ..................12

9 semesters hours of social sciences, (to include Hist 112 or 175 or 176 or Pol Sc 90, or equivalent .......9

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 130 credit hours.
A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.
Course Change Form (CC)
This form is for creating or modifying permanent courses.

Course Changes  (Check all changes.)
New Course ☒  Course Deletion ☐  Credit Hours ☐  Prerequisites ☐
Course Title ☐  Catalog Description ☐  Course Number ☐  Co-listing ☐

Course Information  (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: History and Political Science
2. Discipline and Course Number: Present: 331
   Proposed: 331
3. Course Title: Present:
   Proposed: Nazism & Holocaust
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present:
   Proposed: This course focuses on the rise of Nazism and its consequences for politics, society, and culture in Europe. The period's history will be examined from the perspective of perpetrators, victims, and bystanders with emphasis on the Holocaust and its legacy.

5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3.0  Lab: 0  Total: 3.0
   Proposed: Lecture: 3.0  Lab: 0  Total: 3.0
7. Prerequisites:
   Present:
   Proposed: Hist 112
8. Required for Majors: ☐  Elective for Majors: ☒
9. Justification: This course is an important addition to our curriculum, one that will broaden our offerings in European history and one that reflects an important new area of academic research.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): FS 2007 & FS 2009
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

   1)  
   2)  
   3)  
   4)  
   5)  
   6)  

   Recommended by Department
   (Chair signature)

   Recommended by Discipline Specific Curricula Committee
   (Chair signature)

   Approved by Curricula Committee:
   (Chair signature)

   Approved by Faculty Senate:
   (Chair signature)

Date: 5/20/10
Date: 8/31/2010

(Revised 2/20/08)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes (Check all changes.)
- New Course □
- Course Deletion □
- Credit Hours □
- Prerequisites □
- Course Title □
- Catalog Description □
- Course Number X
- Co-listing □

Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: N/A
   Department: Economics

2. Discipline and Course Number: Present: 355  Proposed: 360

3. Course Title: Present: Statistical Models in Actuarial Science
   Proposed:
   Abbreviated Course Title: Stat models in Actua Sci
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)
   Present: Proposed:

5. Credit Hours:
   Present: Lecture: Lab: Total:
   Proposed: Lecture: Lab: Total:

6. Prerequisites:
   Present:
   Proposed:

7. Required for Majors: □
   Elective for Majors: □

8. Justification: To keep the numbers consistent, Econ 355 became Energy Economics to match it's co-listed partner MiEng 355 (reference CC file #7730.) That created 2 Econ 355 courses. The previously existing Econ 355 (Stat Models in Actuarial Sci) now needs a different number.

9. Semesters previously offered as an experimental course (101, 201, 301, 401):
10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.
   1)
   2)
   3)
   4)
   5)
   6)
   Recommended by Department: [Signature]
   Date: 9/20/10
   Recommended by School/College:
   [Signature]
   Date: 9/2/10
   Recommended by UMR Curricula Committee:
   [Signature]
   Date:
   Recommended by Academic Council:
   [Signature]
   Date:
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes
(Check all changes.)
New Course ☑ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

Course Information
(1-9 Must Be Completed. Leave *Proposed* items blank if no change is being made.)

1. Department: Geological Sciences and Engineering

2. Discipline and Course Number: Present: 201 Proposed: 207

3. Course Title: Present: Geology and Engineering of Ancient and Modern Peru Proposed: Geology and Engineering of Ancient and Modern Peru
Abbreviated Course Title: Geo Engineering of Peru

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)
Present: A study of the geological engineering of the Cuzco-Machu Picchu corridor, including the interrelations of geology, climate, archeology, and history. A technical report and a week-long field trip to Peru during Spring Break are required.

Proposed: A study of the geological engineering of the Cuzco-Machu Picchu corridor, including the interrelations of geology, climate, archeology, and history. A technical report and a week-long field trip to Peru during Spring Break are required.

5. If course requires field trip check box: ☑

6. Credit Hours:
Present: Lecture: 1 Lab: 1 Total: 
Proposed: Lecture: 1 Lab: 1 Total: 

7. Prerequisites:
Present: 
Proposed: 

8. Required for Majors: ☐ Elective for Majors: ☑

9. Justification:

10. Semesters previously offered as an experimental course (101, 201, 301, 401): Sp 2009, Sp 2010

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
1) 2) 3)
4) 5) 6)

Recommended by Department: Ralph E. Mon
(Chair signature)

Recommended by Discipline Specific Curricula Committee:
(Chair signature)

Approved by Curricula Committee: 
(Chair signature)

Approved by Faculty Senate: 
(Chair signature)

Date: 7-12-10
Date: 9-12-10

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes  (Check all changes.)
- New Course ☑
- Course Deletion ☐
- Credit Hours ☐
- Prerequisites ☐
- Course Title ☐
- Catalog Description ☑
- Course Number ☑
- Co-listing ☐

Course Information  (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Biological Sciences
2. Discipline and Course Number: Present: 401
   Proposed: 470
3. Course Title: Present: Advanced Toxicology
   Proposed: Advanced Toxicology
4. Catalog Description (300 Character Spaces or Less.)
   Present: We will discuss the toxicity and mechanisms of action of natural and man-made toxicants. The impact of toxicants on both human health and the environment will be considered. Students will be assigned to independent literature search and write a report.
   Proposed: 

5. If course requires field trip check box: ☐
6. Credit Hours: Present: Lecture: 3 Lab: 0 Total: 3
   Proposed: Lecture: 3 Lab: 0 Total: 3
7. Prerequisites: Present: cell biology 211 & general genetics 231
8. Required for Majors: ☐ Elective for Majors: ☑
9. Justification: Course has been taught as 401 and is now being given a regular number.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP2007 & SP2010
11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.
   1) 2) 3)
   4) 5) 6)
   Recommended by Department: [Signature]
   Date: 9/10/09
   Recommended by Discipline Specific Curricula Committee: [Signature]
   Date: 9/10/2010
   Approved by Curricula Committee: [Signature]
   Date: 
   Approved by Faculty Senate: [Signature]
   Date: 

(Revised 1/29/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes**
(Select all changes.)
New Course ☒
Course Deletion ☐
Credit Hours ☐
Prerequisites ☒
Course Title ☒
Catalog Description ☒
Course Number ☒
Co-listing ☐

**Course Information**
(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)
1. Department: Chemical & Biological Eng.
2. Discipline and Course Number: Present: 401
   Proposed: 446
3. Course Title: Present: Molecular Simulation in Engineering and Science
   Proposed: Molecular Modeling and Simulation
   Abbreviated Course Title: Molecular Simulation
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: This special topics course deals with the application of molecular-level computer simulation in various engineering and science fields. Topics include molecularly based approaches, potential energy functions, Monte Carlo and molecular dynamics methodologies, static and dynamic properties of systems
   Proposed: Study of molecular-based modeling and simulation methodologies and their connections with each other and to multiscale modeling and other engineering approaches. Molecular Dynamics, Monte Carlo, Brownian Dynamics, statistical mechanics, and application cases in engineering and science are included.
5. If course requires field trip check box: ☐
6. Credit Hours:
   Present: Lecture: 3
   Lab: Total: 3
   Proposed: Lecture: 3
   Lab: Total: 3
7. Prerequisites:
   Present: graduate standing or instructor approval
   Proposed: ChE 445 or instructor approval
8. Required for Majors: ☐
   Elective for Majors: ☒
9. Justification:
   This course covers a new approach in engineering science that is between and has the characteristics of both experiment and theory. It has been offered twice before as ChE 401 and is now more complete and polished, and better connected to other engineering courses with new materials and perspectives added recently. The subject has seen growing interest among students, researchers, and industries.
10. Semesters previously offered as an experimental course (101, 201, 301, 401): Spring 03, Fall 06
11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3) 4) 5) 6)
Recommended by Department<br>Chair signature: 
Recommended by Discipline Specific Curricula Committee<br>Chair signature: 
Approved by Curricula Committee: (Chair signature)
Approved by Faculty Senate: (Chair signature)

Date: 8/16/2010
Date: 9-12-10
Date: 
Date: 

(Revised 1/20/09)
Course Change Form (CC)

This form is for creating or modifying permanent courses.

Course Changes

New Course [ ] Course Deletion [ ] Credit Hours [ ] Prerequisites [ ]
Course Title [ ] Catalog Description [ ] Course Number [ ] Co-listing [ ]

Course Information

1. Department: Mechanical & Aerospace Engineering
2. Discipline and Course Number: Present: AE 180 Proposed:
3. Course Title: Present: Introduction to Aerospace Design Proposed:
   Abbreviated Course Title:
   (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (300 Character Spaces or Less.)
   Present: Introduction to methodology of aerospace vehicle design and principles of layout to meet a given specification, mission objective, component sizing, design iteration and building & performance testing of models.
   Proposed:

5. If course requires field trip check box: []
6. Credit Hours: Present: Lecture: 0 Lab: 2 Total: 2
   Proposed: Lecture: 1 Lab: 1 Total: 2
7. Prerequisites:
   Present: AE 161 Proposed:

8. Required for Majors: [X] Elective for Majors: []
9. Justification: This course should meet once per week for a lecture, in addition to the lab sections which are currently in place. This will also provide more appropriate designation of instructor and TA duties, which will be beneficial to the process of teaching evaluations.
10. Semesters previously offered as an experimental course (101, 201, 301, 401):
7. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.
   1) 2) 3) 4) 5) 6)
   Recommended by Department
   Recommended by Discipline Specific Curricula Committee
   Approved by Curricula Committee:
   Approved by Faculty Senate:

08/25/10 Date: 8/9/10
09/13/10 Date: 9/13/10
07/23/10 Date: __________

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(Chair Signature)

(Revised 1/29/09)

07/23/10

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Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Biological Sciences

Discipline and Course Number: BioSci 201

Course Title: Issues in Public Health

Abbreviated Title (24 spaces or less):

Instructor(s): Yue-wern Huang

Credit Hours: Lecture: 2  Lab: 0  Total: 2

Prerequisites: BIO110 or BIO111

Semester(s) previously taught: 0

Brief Course Description: (40 words or less)

Due to globalization, diseases such as West Nile Disease, Ebola Hemorrhagic Fever, and SARS are able to overcome geographic barriers and become widespread. We will discuss the nature of these diseases and their impact on public health, national security, and the economy of global society.

GLOBAL

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1)  2)  3)  4)  5)  6)

Department Chair: [signature]

Discipline Specific Curricula Committee: [signature]

Curricula Committee: [signature]

Date: 7/23/10  Date: 9/10/2010

(Revised 1/31/2008)
Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair’s notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Geological Sciences and Engineering

Discipline and Course Number: GE 401

Course Title: Inca Civilization Geotechnical Engineering Practices

Abbreviated Title (24 spaces or less): Inca Geo Eng Practices

Instructor(s): Anderson and Luna

Credit Hours: Lecture: 3 Lab: Total:

Prerequisites: GE 50 or GE 215 or equivalent, and graduate standing

Semester(s) previously taught:

Brief Course Description: (40 words or less)
An in-depth study of geotechnical engineering practices within the Cuzco-Machu Picchu corridor, with emphasis on the inter-relationships between tectonics, geology, geomorphology, climate, hydrology, agriculture, quarrying, construction practices, irrigation, culture and history. A week-long field trip to Peru during Spring Break is required.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1) CV ENG 401
2) WPS 7128
3) WPS 7128
4) WPS 7128
5) WPS 7128
6) WPS 7128

Department Chair: [Signature]
Date: 7-14-10

Discipline Specific Curricula Committee: [Signature]
Date: 9-12-10

Curricula Committee: [Signature]
Date: 

07/19/10 (Revised 1/31/2008)
401: Inca Civilization Geotechnical Engineering Practices

Instructors: Neil Anderson, Leslie Gertsch, Ronaldo Luna

Catalog Description: An in-depth study of geotechnical engineering practices within the Inca civilization with emphasis on the Cuzco-Machu Picchu corridor. The course is focused on inter-relationships between tectonics, geology, geomorphology, climate, hydrology, agriculture, quarrying, construction, and irrigation practices, culture and history. A week-long field trip to Peru during Spring Break is required.

Course Objectives:
- Understand Inca culture well enough to appreciate how it influenced construction needs and practices.
- Understand regional tectonic activity, geology (emphasis on soils, building materials and precious metals), geomorphology, climate and hydrology well enough to appreciate how they influenced construction needs and practices.
- Understand Inca agricultural needs well enough to appreciate how they influenced construction needs and practices (emphasis on agricultural terraces, drainage, irrigation, aqueducts, reservoirs, food storage and transport).
- Learn the design and construction techniques employed by the Inca (emphasis on quarrying, transport and fitting of building stone, foundation drainage, bridges, the placement of structures, fortification, heating and ventilation). Understand why post-Inca infrastructure is much less enduring.

Textbook:
ASCE... Kenneth Wright's books on the Incas:
“Tipon: Water Engineering Masterpiece of the Inca Empire...”
“Machu Picchu: A Civil Engineering Marvel”

Grading:
- Reading/Homework 20
- Pre-trip Report 20
- Quiz 20
- Group Participation/Trlp 20
- Term Paper/Final Exam 20

Total 100
401: Inca Civilization Geotechnical Engineering Practices
(two lectures per week plus field trip)

Week 1 (January 11th): Overview of the history of Peru: pre-Inca to recent

Week 2 (January 16th): Inca culture, with emphasis on customs that influenced construction and agricultural practices, and inter-empire transportation.

Week 3 (January 25th): Geology of Peru, with emphasis on the Cusco-Machu Picchu corridor. Focused on tectonics, building stone, soils and minerals

Week 4 (Feb 1st): Climate of Peru, with emphasis on the Cusco-Machu Picchu corridor. Focused on climatic variations caused by changes in elevation, rainfall patterns, etc.

Week 5 (Feb 8th): Hydrology of Peru, with emphasis on the Cusco-Machu Picchu corridor. Focused on transport, irrigation and flooding.

Week 6 (Feb 15th): Agricultural practices in Inca Empire, with emphasis on soils, climate and hydrology.

Week 7 (Feb 22nd): Construction of agricultural terraces.

Week 8 (March 1st): Irrigation practices, with emphasis on reservoirs and canals.

Week 9 (March 8th): Stone quarrying practices.

Week 10 (March 15th): One class. Quiz.

Week 11 (March 22nd): Building construction practices, with emphasis on stone structures.

Week 12 (March 29th): Spring Break - FIELD TRIP TO PERU

Week 13 (April 5th): Transportation systems within Inca Empire.

Week 14 (April 12th): Bridges, with emphasis on construction.

Week 15 (April 19th): Earthquake proof structures.

Week 16 (April 26th): Mining practices, with emphasis on precious metals and salt.

Week 17 (May 3rd): Effect of Spanish conquest.
Experimental Course Form (EC)

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Department: Arts, Language and Philosophy

Discipline and Course Number: Phil 201

Course Title: Ancient and Medieval Philosophy

Abbreviated Title (24 spaces or less): AncMedPhil

Instructor(s): Jonathan Finch

Credit Hours: Lecture: 4  Lab:  Total: 4

Prerequisites: None  Entrance Req.

Semester(s) previously taught: 0

Brief Course Description: (40 words or less)
The class will be taught in Prague. It will begin with the Pre-Socratics before covering Socrates, Plato, Aristotle, Augustine, Aquinas and the major schools of thought. Ancient and Medieval thought are historically inter-related and thus a natural combination.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.
1)  2)  3)
4)  5)  6)

Department Chair:  (Chair Signature)  Date: 8/16/10

Discipline Specific Curricula Committee:  (Chair signature)  Date: 8/16/10

Curricula Committee:  (Chair Signature)  Date: ______________

08/16/10  (Revised 1/31/2008)