Minutes of the Campus Curricula Committee Meeting
August 19, 2014
2:00 p.m., Room 106 B Parker Hall


The following curriculum forms were discussed and approved:

Degree Change Forms:
- File #232
- File #135.9

Course Change Forms:
- File #2004.1
- File #2329.5
- File #2214.2
- File #840.1
- File #567.1
- File #986.1
- File #30.5
- File #666.1
- File #1173.1
- File #392.1
- File #1928.1
- File #4093

Experimental Course Forms:
- File #4096
- File #4099 (approved as EC)
- File #4100

Dr. Schuman presented an updated on the Bachelor of Science Curriculum Standard

AY 2014-2015 Curricula Meeting Dates and Form Submission Deadlines were approved.

The meeting adjourned at 3.45 p.m.

Thomas Schuman, Chair
Missouri S&T Campus Curricula Committee
Program Change Request

New Program Proposal

Date Submitted: 04/14/14 11:20 am

Viewing: PROPOSED : Military Aerospace Studies Minor

File: 232
Last edit: 08/25/14 11:26 am

Changes proposed by: chronisterbk

Start Term: Fall 2015
Program Code: PROPOSED
Department: Aerospace Studies - Air Force ROTC
Title: Military Aerospace Studies Minor

Program Requirements and Description

Air Force Reserve Officer Training Corps (ROTC) is administered by the Department of Aerospace Studies. Although Air Force ROTC is set up as a four-year program, students can choose a four, three and a half, or three year course of study. The first two years of the program, called the General Military Course (GMC), cover basic introductory military topics as well as communication and leadership. The final two years of the program, called the Professional Officer Course (POC), cover topics such as leadership, management, doctrine, international events, quality, communication, and officerhip. To fulfill the requirements for the proposed Aerospace Studies minor, students will complete all of the following classes for a total of 16 credit hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL AIR 1110</td>
<td>Foundations Of The U.S. Air Force I</td>
<td>1</td>
</tr>
<tr>
<td>MIL AIR 1120</td>
<td>Foundations Of The U.S. Air Force II</td>
<td>1</td>
</tr>
<tr>
<td>MIL AIR 2110</td>
<td>The Evolution Of USAF Air And Space Power I</td>
<td>1</td>
</tr>
<tr>
<td>MIL AIR 2120</td>
<td>The Evolution Of USAF Air And Space Power II</td>
<td>1</td>
</tr>
<tr>
<td>MIL AIR 3110</td>
<td>Air Force Leadership Studies I</td>
<td>3</td>
</tr>
<tr>
<td>MIL AIR 3120</td>
<td>Air Force Leadership Studies II</td>
<td>3</td>
</tr>
<tr>
<td>MIL AIR 4110</td>
<td>National Security Affairs/Preparation For Active Duty I</td>
<td>3</td>
</tr>
<tr>
<td>MIL AIR 4120</td>
<td>National Security Affairs/Preparation For Active Duty II</td>
<td>3</td>
</tr>
</tbody>
</table>

Justification for request

Department request

Supporting Documents

Course Reviewer: kleb6b (04/04/14 11:44 am): Rollback: Please clarify the requirements for the proposed Minor using 4 digit course numbers
kleb6b (04/04/14 3:17 pm): Rollback: Clarify Minor Requirements
kleb6b (08/22/14 11:55 am): Change Start Term
kleb6b (08/25/14 11:26 am): Name Change

Key: 232
Program Change Request

Date Submitted: 05/12/14 3:09 pm

Viewing: A&E BIO-MS : Applied and Environ Biology MS

File: 30.5

Last approved: 04/28/14 8:22 am

Last edit: 07/30/14 7:36 am

Changes proposed by: shannonk

Catalog Pages
Using this Program

Start Term Fall 2015 8/1/2014

Program Code A&E BIO-MS

Department Biological Sciences

Title Applied and Environ Biology MS

Program Requirements and Description

Degree Requirements M.S. - with thesis

- BIO SCI 6202 Problems In Applied And Environmental Biology
- BIO SCI 5010 Graduate Seminar
- BIO SCI 6273 Techniques In Applied And Environmental Biology
- BIO SCI 5099 Graduate Research
- BIO SCI 6223 Research Proposal Writing

Degree Requirements M.S. - without thesis

- BIO SCI 6202 Problems In Applied And Environmental Biology
- BIO SCI 5010 Graduate Seminar

Elective courses are chosen with guidance from the advisor and advisory committee. A minimum of 30 credit hours is required for a MS degree. Up to 6 credit hours may be taken at the 3000-level in courses offered by other departments. Candidates for the MS degree with thesis conduct original research that is defended in a final oral examination. Non-thesis MS degree candidates take a comprehensive written final examination.
<table>
<thead>
<tr>
<th>Justification for request</th>
<th>We are removing the requirement for the course Bio Sci 6273 Techniques in Applied and Environmental Biology and replacing it with a requirement for Bio Sci 6223 Research Proposal Writing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supporting Documents</td>
<td></td>
</tr>
<tr>
<td>Course Reviewer Comments</td>
<td><strong>tauritzd (07/30/14 7:36 am)</strong>: This form was submitted too late to be effective FS2014, thus the effective term has been changed to the next possible, which is FS2015.</td>
</tr>
</tbody>
</table>
Program Change Request

Date Submitted: 04/24/14 9:55 am

Viewing: TCH COM-MS : Technical Communication MS

File: 135.9

Last approved: 04/23/14 3:38 pm

Last edit: 08/22/14 12:18 pm

Changes proposed by: kswenson

Catalog Pages Using this Program

Start Term Fall 2015 8/1/2014

Program Code TCH COM-MS

Department English and Technical Communication

Title Technical Communication MS

Program Requirements and Description

M.S. Degree Requirements

The following 10 courses (totaling 30 credit hours) are required for the M.S.:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCH COM 5620</td>
<td>Research Methods in Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 4520</td>
<td>Help Authoring</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 5510</td>
<td>Technical Editing</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 5530</td>
<td>Usability Studies</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 5610</td>
<td>History of Technical Communication</td>
<td>3</td>
</tr>
</tbody>
</table>
A student completing the master's degree will also take a comprehensive exam during his/her final semester. If the student chooses to do a thesis instead of the exam, and the technical communication faculty give their approval to this plan, the student will have to take 6 hours of advisor-approved 4000-level and above TCH COM 5099 coursework in addition to the above 10-course sequence. Research in addition to the above 10-course sequence.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCH COM 6600</td>
<td>Foundations of Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 5560</td>
<td>Web-Based Communication</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 6440</td>
<td>Advanced Theories of Visual Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 6450</td>
<td>Advanced International Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>TCH COM 5550</td>
<td>Advanced Proposal Writing</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Supporting Documents

Course Reviewer: kleb6b (05/21/14 4:24 pm): Rollback. Tabled until next meeting
kleb6b (08/22/14 12:18 pm): Switched out TCH COM 5450 for TCH COM 6450
Course Inventory Change Request

Date Submitted: 06/26/14 10:57 am

Viewing: ART 1185: Study Of Film

File: 2004.1
Last edit: 08/22/14 12:21 pm
Changes proposed by: denises

Programs referencing this course

- ART-MI: Art Minor
- ECON-BS: Economics BS
- FILM< MI: Film and Literature Minor

Other Courses referencing this course

In The Prerequisites:

- ART 3245: Thomas Hart Benton And The Tradition Of American Art
- ART 3250: Thematic Studies In Film & Literature

Requested Effective Change Date

- Spring 2015
- Fall 2014

Department

Arts, Languages, & Philosophy

Discipline

Art (ART)

Course Number

1185

Title

Study Of Film

Abbreviated Course Title

Study Of Film

Catalog Description

A study of classic and contemporary films with emphasis on director’s technique and philosophy. Films by Fellini, Antonioni plus Bergman, Chaplin, etc. will be viewed and discussed. $30 lab fee required.

Prerequisites

Field Trip Statement

Credit Hours

- LEC: 2
- LAB: 1
- IND: 0
- RSD: 0
- Total: 3

Required for Majors

No

Elective for Majors

Yes

Justification for change:

$30 Lab fee required added to Program Description
## Experimental Course

### List of Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1185: Study Of Film</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Key:

- 2004

- pms
- tschuman:
- Approved for
- Campus Curricula
- Committee Chair

Key: 2004
Course Inventory Change Request

New Course Proposal

Date Submitted: 05/12/14 3:07 pm
Viewing: **BIO SCI 6223 : Research Proposal Writing**
File: 4091
Last edit: 08/22/14 12:22 pm
Changes proposed by: shannonk

**Programs referencing this course**

A&E BIO-MS: Applied and Environ Biology MS

**Requested Effective Change Date**

Spring 2015

**Department**

Biological Sciences

**Discipline**

Biological Sciences (BIO SCI)

**Course Number**

6223

**Title**

Research Proposal Writing

**Abbreviated Course Title**

Research Proposal

**Catalog Description**

Students will learn best practices of grant proposal writing. Students will conduct background research, prepare an annotated bibliography, brainstorm specific aims, and critique each other's writing. The course will conclude with a presentation by the student of their finished proposal.

**Prerequisites**

Graduate standing

**Field Trip Statement**

none

**Credit Hours**

LEC: 3  
LAB: 0  
IND: 0  
RSD: 0  
Total: 3

**Required for Majors**

No

**Elective for Majors**

Yes

**Justification for new course**

This course is a new requirement to replace the required course Techniques in Applied and Environmental Biology

Semesters previously offered as an experimental course

In Workflow

1. RBIOLSCI Chair
2. CCC Secretary
3. Sciences DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path

1. 05/12/14 3:37 pm aronstam: Approved for RBIOLSCI Chair
2. 05/12/14 3:56 pm kleb66b: Approved for CCC Secretary
3. 07/30/14 7:33 am tauritzd: Approved for Sciences DSCC Chair
4. 07/30/14 7:44 am kleb66b: Approved for Pending CCC Agenda post
5. 08/22/14 12:22 pm kleb66b: Approved for CCC Meeting Agenda
6. 08/22/14 12:26 pm tschuman: Approved for
### Co-Listed Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>4091 BIO SCI 6223: Research Proposal Writing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin...
COMP ENG 3151: Digital Engineering Lab II

Course Inventory Change Request

Date Submitted: 06/30/14 4:21 pm

Viewing: COMP ENG 3151 : Digital Engineering Lab II

File: 2329.5

Last approved: 06/30/14 3:55 am

Changes proposed by: lahne

In The Prerequisites:

COMP ENG 5120 : Digital Computer Design

Requested Effective Change Date: Spring 2015 Fall 2014

Department: Electrical and Computer Engineering

Discipline: Computer Engineering (COMP ENG)

Course Number: 3151

Title: Digital Engineering Lab II

Abbreviated Course Title: Digital Eng Lab II

Catalog Description: Advanced digital design techniques, Microcontroller based design, hardware and software codesign.

Prerequisites: Comp Eng 2210, Comp Eng 2211, and Comp Sci 1570 (or programming equivalent) each with grade of "C" or better. Preceded or accompanied by Comp Eng 3150, Elec Eng 2200 and Elec Eng 2201. 3150.

Field Trip Statement

Credit Hours: LEC: 0 LAB: 1 IND: 0 RSD: 0 Total: 1

Required for Majors: No

Elective for Majors: Yes No

Justification for change: File #2329.1 was approved at the May CCC/June FS meetings as a course number change with an effective of Fall 2014. This form adds in the requested co-requisite changes with an effective term of Spring 2015.
<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>stanleyj (2329.1)</td>
<td></td>
</tr>
</tbody>
</table>

**Key:**
- 2329

**COMP ENG 3151: Digital Engineering Lab II**

Course Inventory Change Request

Date Submitted: 06/25/14 3:25 pm

Viewing: COMP SCI 3803 3889: Computer Organization

File: 666.1
Last edit: 08/22/14 12:22 pm
Changes proposed by: tauritzd

Requested                  Spring 2015 Fall 2014
Effective Change          
Date                      
Department                Computer Science
Discipline                Computer Science (COMP SCI)
Course Number             3803-3889
Title                     Computer Organization
Abbreviated Course Title  Computer Organization

Catalog Description
A detailed study of computer organization concepts and the components of a
computer system including control unit, microprogramming, pipelining, memory
hierarchy, cache design, virtual memory, I/O devices, and a brief introduction to
parallel processors.

Prerequisites
A "C" or better in both Comp Eng 2210 and Comp Sci 1510.

Field Trip Statement

Credit Hours
LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Required for Majors
No

Elective for Majors
Yes

Justification for change:
The currently listed prerequisite is not being taught. The proposed prerequisites are
being taught and cover the necessary background knowledge for this course.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments
Course Inventory Change Request

Date Submitted: 04/29/14 8:37 am

Viewing: ELEC ENG 4096: Electrical Engineering Senior Project I

File: 2214.2

Last approved: 04/28/14 4:00 am

Last edit: 04/29/14 8:37 am

Changes proposed by: lahne

Programs referencing this course

- CP ENG-BS: Computer Engineering BS
- EL ENG-BS: Electrical Engineering BS
- EL ENG-MI: Minor in Electrical Engineering

Other Courses referencing this course

In The Prerequisites:

- ELEC ENG 4097: Electrical Engineering Senior Project II

Requested Effective Change Date

- Spring 2015

Department

- Electrical and Computer Engineering

Discipline

- Electrical Engineering (ELEC ENG)

Course Number

- 4096

Title

- Electrical Engineering Senior Project I

Abbreviated Course Title

- EE Senior Project I

Catalog Description

A complete design cycle. Working in small teams, students will design, document, analyze, implement and test a product. Topics include: Iteration in design, prototyping, group dynamics, design reviews, making effective presentations, concurrent design, designing for test, ethics and standards, testing and evaluation.

Prerequisites

- Comp Eng 2210, Econ 1100 or 1200, English 3560, at least 3 of the following: Elec Eng 3500, Elec Eng 3540, Elec Eng 3320, Elec Eng 3420, 3421, Elec Eng 3600, Elec Eng 3100.

Field Trip Statement

Credit Hours

- LEC: 0
- LAB: .5
- IND: 0
- RSD: .5
- Total: 1

Required for Majors

- Yes

Elective for Majors

- No

Justification for change:

replace inactive course in prerequisite.

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin...
Semesters previously offered as an experimental course

Co-Listed Courses:

<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
</table>

**Key:**
- 2214

Committee Chair

**History**
1. Apr 28, 2014 by lahne (2214.1)

ELEC ENG 4096: Electrical Engineering Senior Project I
Course Inventory Change Request

Date Submitted: 04/26/14 3:20 pm

Viewing: GEO ENG 1150: Introduction to Physical Geology

File: 1173.1
Last edit: 06/13/14 10:13 am
Changes proposed by: gertschl

Catalog Pages referencing this course

Freshman Engineering Program

Programs referencing this course

CV ENG-B: Civil Engineering BS
EV ENG-B: Environmental Engineering BS
GE ENG-B: Geological Engineering BS
GE ENG-M: Geological Engineering Minor
GEOL-M: Geology Minor
MI ENG-B: Mining Engineering BS
PE ENG-B: Petroleum Engineering BS

Other Courses referencing this course

In The Catalog Description:
GEOLOGY 1111: Introduction to Physical Geology

In The Prerequisites:
CIV ENG 3116: Construction Materials, Properties And Testing
CIV ENG 3715: Fundamentals of Geotechnical Engineering
CIV ENG 6760: Inca Civilization Geotechnical Engineering Practices
GEO ENG 2536: Basic Weather
GEO ENG 3175: Geomorphology And Terrain Analysis
GEO ENG 3249: Fundamentals Of Computer Applications In Geological Engineering
GEO ENG 4276: Environmental Aspects Of Mining
GEO ENG 5331: Subsurface Hydrology
GEO ENG 5443: Subsurface Exploration
GEO ENG 5575: Aggregates And Quarrying
GEO ENG 6407: Inca Civilization Geotechnical Engineering Practices
GEO ENG 6782: Surface Waves (MASW) and Ground Penetrating Radar (GPR)
GEOLOGY 1120: Evolution Of The Earth
GEOLOGY 2611: Physical Mineralogy And Petrology
GEOLOGY 4411: Hydrogeology
GEOLOGY 4431: Methods Of Karst Hydrogeology
GEOLOGY 4511: Petroleum Geology
GEOLOGY 4611: Depositional Systems
GEOLOGY 4841: Geological Field Studies
GEOPHYS 2211: Geophysical Imaging
MIN ENG 4742: Environmental Aspects Of Mining

In Workflow
1. RGEOENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ischeton
11. Peoplesoft

Approval Path
1. 05/14/14 8:23 am
   reforli: Approved for RGEOENG Chair
2. 05/14/14 8:35 am
   kieb6b: Approved for CCC Secretary
3. 06/13/14 10:13 am
   sraper: Approved for Engineering DSCC Chair
4. 07/29/14 8:52 am
   kieb6b: Approved for Pending CCC Agenda post
5. 08/22/14 12:23 pm
   kieb6b: Approved for CCC Meeting Agenda
6. 08/22/14 12:48 pm
   tscuman: Approved for
<table>
<thead>
<tr>
<th>Requested</th>
<th>Spring 2015 Fall 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Change Date</td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td>Geosciences and Geological and Petroleum Engineering</td>
</tr>
<tr>
<td>Discipline</td>
<td>Geological Engineering (GEO ENG)</td>
</tr>
<tr>
<td>Course Number</td>
<td>1150</td>
</tr>
<tr>
<td>Title</td>
<td>Introduction to Physical Geology</td>
</tr>
<tr>
<td>Abbreviated Course Title</td>
<td>Intro Physical Geol</td>
</tr>
<tr>
<td>Catalog Description</td>
<td>A study of Earth materials, surface features, internal structures and processes. Particular attention is paid to Earth resources, geological hazards, engineering and environmental problems.</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>Entrance requirements.</td>
</tr>
<tr>
<td>Field Trip Statement</td>
<td></td>
</tr>
<tr>
<td>Credit Hours</td>
<td>LEC: 2 LAB: 1 IND: 0 RSD: 0 Total: 3</td>
</tr>
<tr>
<td>Required for Majors</td>
<td>Yes No</td>
</tr>
<tr>
<td>Elective for Majors</td>
<td>No</td>
</tr>
<tr>
<td>Justification for change:</td>
<td>Correction: This course is required for Geo Eng majors.</td>
</tr>
<tr>
<td>Semesters previously offered as an experimental course</td>
<td></td>
</tr>
<tr>
<td>Co-Listed Courses:</td>
<td>GEOLOGY 1111 - Introduction to Physical Geology</td>
</tr>
<tr>
<td>Course Reviewer Comments</td>
<td></td>
</tr>
</tbody>
</table>

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin...
Course Inventory Change Request

Date Submitted: 04/26/14 2:35 pm
Viewing: GEO ENG 2605 : Statics and Mechanics of Geologic Materials
File: 840.1
Last edit: 06/13/14 10:20 am
Changes proposed by: gertschl

Requested Effective Change Date
Spring 2015 Fall 2014

Department Geosciences and Geological and Petroleum Engineering
Discipline Geological Engineering (GEO ENG)
Course Number 2605
Title Statics and Mechanics of Geologic Materials
Abbreviated Course Title Geo Mats Statics & Mech

Catalog Description
Fundamental statics of rigid bodies and mechanics of deformable bodies for entering graduate students, focusing on behavior of rock and soil in engineering situations. Not for students intending to register as professional engineers. Designed This course was designed for military officers registered in either the GE DL MS Degree Program or the GE FLW MS Degree Program.

Prerequisites
Permission of instructor.

Field Trip Statement

Credit Hours
LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Required for Majors No
Elective for Majors No

Justification for change:
Tidying up the catalog description.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

In Workflow
1. RGEOSENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. FS Meeting Agenda
8. Faculty Senate Chair
9. Registrar
10. Ishelton
11. Peoplesoft

Approval Path
1. 05/14/14 8:24 am reflori: Approved for RGEOSENG Chair
2. 05/14/14 8:36 am kleb66: Approved for CCC Secretary
3. 06/13/14 10:20 am sraper: Approved for Engineering DSCC Chair
4. 07/29/14 8:54 am kleb66: Approved for Pending CCC Agenda post
5. 08/22/14 12:24 pm kleb66: Approved for CCC Meeting Agenda
6. 08/22/14 12:48 pm tschuman: Approved for
### Course Inventory Change Request

**Date Submitted:** 04/26/14 2:39 pm  
**File:** 392.1  
**Last edit:** 08/22/14 12:24 pm  
**Changes proposed by:** gertschl

<table>
<thead>
<tr>
<th>Programs referencing this course</th>
<th>Other Courses referencing this course</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV ENG-BS: Environmental Engineering BS</td>
<td>GEO ENG 5146: Applications Of Geographic Information Systems</td>
</tr>
<tr>
<td>GE ENG-BS: Geological Engineering BS</td>
<td>GEO ENG 5172: Soil Science In Engineering Practice</td>
</tr>
<tr>
<td>GE ENG-MI: Geological Engineering Minor</td>
<td>GEO ENG 5235: Environmental Geological Engineering</td>
</tr>
<tr>
<td>GEOL-MI: Geology Minor</td>
<td>GEO ENG 5237: Geological Aspects Of Hazardous Waste Management</td>
</tr>
<tr>
<td>GL&amp;GPH-BS: Geology and Geophysics BS</td>
<td>GEO ENG 5441: Engineering Geology And Geotechnics</td>
</tr>
<tr>
<td></td>
<td>GEO ENG 5471: Rock Engineering</td>
</tr>
<tr>
<td></td>
<td>GEO ENG 5575: Aggregates And Quarrying</td>
</tr>
<tr>
<td></td>
<td>GEO ENG 5642: Military Geology</td>
</tr>
</tbody>
</table>

**Requested Date:** Spring 2015  
**Effective Change Date:** Fall 2014

**Department:** Geosciences and Geological and Petroleum Engineering  
**Discipline:** Geological Engineering (GEO ENG)  
**Course Number:** 3175  
**Title:** Geomorphology And Terrain Analysis  
**Abbreviated Course Title:** Geomorphol & Terr Analy

**Catalog Description:** Study of geomorphic processes, landform development, development, and surficial surficial materials. Stresses the evaluation of the engineering properties of terrain factors for site selection and design of engineered structures.

**Prerequisites:** Geo Eng 1150.

**Field Trip Statement:**

**Credit Hours:**  
- LEC: 2  
- LAB: 1  
- IND: 0  
- RSD: 0  
- Total: 3

**Required for Majors:** Yes

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In Workflow  
1. RGEOSENG Chair  
2. CCC Secretary  
3. Engineering DSCC Chair  
4. Pending CCC Agenda post  
5. CCC Meeting Agenda  
6. Campus Curricula Committee Chair  
7. FS Meeting  
   - Agenda  
8. Faculty Senate Chair  
9. Registrar  
10. Ishelton  
11. Peoplesoft

**Approval Path:**  
1. 05/14/14 8:24 am  
   - reflori: Approved for RGEOSENG Chair  
2. 05/14/14 8:36 am  
   - kleb6b: Approved for CCC Secretary  
3. 06/13/14 10:21 am  
   - srapera: Approved for Engineering DSCC Chair  
4. 07/29/14 8:54 am  
   - kleb6b: Approved for Pending CCC Agenda post  
5. 08/22/14 12:24 pm  
   - kleb6b: Approved for CCC Meeting Agenda  
6. 08/22/14 12:49 pm  
   - tschuman: Approved for
<table>
<thead>
<tr>
<th>Elective for Majors</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Justification for change:</td>
<td>Correction: This course is required for Geo Eng majors.</td>
</tr>
<tr>
<td>Semesters previously offered as an experimental course</td>
<td></td>
</tr>
<tr>
<td>Co-Listed Courses:</td>
<td></td>
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</tbody>
</table>

Course Reviewer Comments

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin...
Course Inventory Change Request

Date Submitted: 04/26/14 3:13 pm

Viewing: GEO ENG 4115: Statistical Geostatistical Methods in Geology Engineering and Engineering Geology

File: 567.1

Last edit: 08/22/14 12:25 pm

Changes proposed by: gertschl

Programs referencing this course:
- AP MATH-BS: Applied Mathematics BS
- GE ENG-BS: Geological Engineering BS
- GEOL-MI: Geology Minor
- GL&GPH-BS: Geology and Geophysics BS
- PE ENG-BS: Petroleum Engineering BS

Other Courses referencing this course:
- In The Prerequisites: GEO ENG 5556: Renewable Energy Systems

Requested Effective Change Date: Spring 2015, Fall 2014

Department: Geosciences and Geological and Petroleum Engineering

Discipline: Geological Engineering (GEO ENG)

Course Number: 4115

Title: Statistical Geostatistical Methods in Geology Engineering and Engineering Geology

Abbreviated Course Title: Geo&Eng Stat Methods

Catalog Description: Statistical study of statistical methods in engineering and geological applications including site investigations and environmental data analyses. Introduction to spatial correlation analysis and geostatistical techniques such as kriging for resource evaluation and estimation.

Prerequisites

Field Trip Statement

Credit Hours: LEC: 3, LAB: 0, IND: 0, RSD: 0, Total: 3

Required for Majors: Yes

Elective for Majors: No

Approval Path

1. 05/14/14 8:25 am - re: Approved for RGEOENG Chair
2. 05/14/14 8:36 am - kleb66: Approved for CCC Secretary
3. 06/13/14 10:22 am - sraper: Approved for Engineering DSCC Chair
4. 07/29/14 8:55 am - kleb66: Approved for Pending CCC Agenda post
5. 08/22/14 12:26 pm - kleb66: Approved for CCC Meeting Agenda
6. 08/22/14 12:50 pm - tschuman: Approved for
Justification for change:

Correlation: This course is required for Geo Eng majors.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 587
Course Inventory Change Request

Date Submitted: 04/26/14 3:11 pm

Viewing: GEO ENG 5315: Advanced Statistical Geostatistical Methods in Geology and Engineering

File: 1928.1

Last edit: 08/22/14 12:51 pm

Changes proposed by: gertschl

Requested Effective Change Date

Spring 2015 Fall 2014

Department Geosciences and Geological and Petroleum Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 5315

Title Advanced Statistical Geostatistical Methods in Geology Engineering and Geology

Abbreviated Course Title Adv Geo&Eng Stats Adv Geostats Methods-Eng Geo

Catalog Description Application of statistical methods to study geology, with emphasis on reliable interpretation of geologic materials and practices, with emphasis on reliable interpretation of laboratory and and field data for water, hydrocarbon, petroleum and mineral exploration and mineral exploration, research, engineering, environmental engineering, and engineering as well as other aspects of geological engineering.

Prerequisites Geo Eng 4115 or Stat 3111 or Stat 3113 or Stat 3115 or Stat 3117.

Field Trip Statement

Credit Hours LEC: 3.0 LAB: 0 IND: 0 RSD: 0 Total: 3

Required for Majors No

Elective for Majors Yes Yes

Justification for change: Improve student preparation for the course content.
<table>
<thead>
<tr>
<th>Course</th>
<th>Co-Listed Courses:</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO ENG 5315</td>
<td>Advanced Statistical Methods in Geology and Engineering</td>
<td><a href="https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin">https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin</a>...</td>
</tr>
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</table>
# New Experimental Course Proposal

## Requested Effective Change Date

- Date Submitted: 08/27/14 10:11 am
- Viewing: PHILOS 2001.TBD
- File: 4111
- Last Edit: 08/27/14 10:12 am
- Changes Proposed by: kleb6b

<table>
<thead>
<tr>
<th>Requested Effective Change Date</th>
<th>Spring 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td>Arts, Languages, &amp; Philosophy</td>
</tr>
<tr>
<td>Discipline</td>
<td>Philosophy (PHILOS)</td>
</tr>
<tr>
<td>Course Number</td>
<td>2001</td>
</tr>
<tr>
<td>Topic ID</td>
<td>TBD</td>
</tr>
<tr>
<td>Experimental Title</td>
<td></td>
</tr>
<tr>
<td>Experimental Abbreviated Course Title</td>
<td></td>
</tr>
<tr>
<td>Instructors</td>
<td>Jonathan Finch</td>
</tr>
<tr>
<td>Experimental Catalog Description</td>
<td>A critical study of the important philosophies of the period from Augustine to the Renaissance. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.</td>
</tr>
<tr>
<td>Prerequisites</td>
<td>None.</td>
</tr>
<tr>
<td>Field Trip Statement</td>
<td></td>
</tr>
<tr>
<td>Credit Hours</td>
<td>LEC: 0</td>
</tr>
<tr>
<td>Justification for new course:</td>
<td>This class is part of a five part series of classes in the history of philosophy to be offered in on-line collaboration with UMSL. This series of classes has been approved by both the department chairs of MST and UMSL and the relevant faculty and an RFP funding proposal was submitted and accepted to help develop this collaborative effort. These shared or collaborative classes are offered to reduce the need to offer the classes independently on either campus.</td>
</tr>
<tr>
<td>Semester(s) previously taught</td>
<td>In the summer of 2010 the class was offered as combination class of Ancient and Medieval philosophy for four hours of credit. This larger combination class is now slated to be broken into two separate classes, Ancient Philosophy and Medieval Philosophy.</td>
</tr>
</tbody>
</table>

## Co-Listed Courses:

<table>
<thead>
<tr>
<th>Co-Listed Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Reviewer</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>kleb6b (08/27/14 10:12 am)</td>
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</tbody>
</table>

https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin...
## Course Inventory Change Request

### New Course Proposal

<table>
<thead>
<tr>
<th>Date Submitted: 06/17/14 9:46 am</th>
<th>File: 4093</th>
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</thead>
<tbody>
<tr>
<td><strong>Viewing:</strong> POL SCI 3210 : Constitutional Law: Government Powers and Civil Liberties</td>
<td></td>
</tr>
</tbody>
</table>

**Department History and Political Science**

**Discipline** Political Science (POL SCI)

**Course Number** 3210

**Title** Constitutional Law: Government Powers and Civil Liberties

**Abbreviated Course Title** Constitutional Law

**Catalog Description**

This course will examine constitutional powers of American governmental institutions and leading Supreme Court decisions dealing with civil liberties including speech, religion, equal protection and the rights of the accused. The course will include study of current political issues and problems relating to these foundational civil liberties.

**Prerequisites**

Pol Sci 1200, History 1200, 1300, or 1310.

**Field Trip Statement**

**Credit Hours**

| LEC: 3 | LAB: 0 | IND: 0 | RSD: 0 | Total: 3 |

**Required for Majors**

No

**Elective for Majors**

Yes

**Justification for new course:**

To broaden the offerings of in American political systems.

**Semesters previously offered as an experimental course**

Spring 2013 and Spring 2014

**Co-Listed Courses:**
<table>
<thead>
<tr>
<th>Course Reviewer</th>
<th>Comments</th>
</tr>
</thead>
</table>

**Key:**
Course Inventory Change Request

Date Submitted: 05/21/14 2:56 pm

Viewing: TCH COM 6450 5450: Advanced International Technical Communication

File: 986.1
Last edit: 06/13/14 11:16 am
Changes proposed by: kswenson

Programs referencing this course

TCH COM-MS: Technical Communication MS

Requested Effective Change Date

Spring 2015 Fall 2014

Department: English and Technical Communication
Discipline: Technical Communication (TCH COM)
Course Number: 6450 5450
Title: Advanced International Technical Communication
Abbreviated Course Title: Adv International Tech Com

Catalog Description

Advanced study of international technical communication. Includes topics such as graphics, icons, symbols; user interface design; intercultural communication. Requires field work at student's expense. Students may not earn credit for both TCH COM 4450 and TCH COM 6450 5450.

Prerequisites

Graduate Standing.

Field Trip Statement

Credit Hours

LEC: 3  LAB: 0  IND: 0  RSD: 0  Total: 3

Required for Majors: No

Elective for Majors: No

Justification for change:

This needs to change to 6000-level as one of the 9 required hrs at 6000-level for the MS degree.

Semesters previously offered as an experimental course

Approved Path

1. 05/21/14 3:04 pm
   kswenson: Approved for RENGLISH Chair

2. 05/23/14 7:47 am
   kle66b: Approved for CCC Secretary

3. 05/23/14 7:49 am
   iliyeva: Approved for Arts & Humanities DSCC Chair

4. 07/29/14 9:02 am
   kle66b: Approved for Pending CCC Agenda post

5. 08/22/14 12:17 pm
   kle66b: Approved for CCC Meeting Agenda

6. 08/22/14 12:24 pm
   tschuman:
Co-Listed Courses:

Course Reviewer Comments

Approved for
Campus Curricula
Committee Chair

Key: 986
Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 06/19/14 1:07 pm

Viewing: BIO SCI 3001.TBD:

File: 4096

Last edit: 07/30/14 7:35 am

Changes proposed by: mmormile

<table>
<thead>
<tr>
<th>Requested</th>
<th>Spring 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Date</td>
<td></td>
</tr>
<tr>
<td>Department</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>Discipline</td>
<td>Biological Sciences (BIO SCI)</td>
</tr>
<tr>
<td>Course Number</td>
<td>3001</td>
</tr>
<tr>
<td>Topic ID</td>
<td>TBD</td>
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<tr>
<td>Title</td>
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</tbody>
</table>

In Workflow
1. RBIOLSCI Chair
2. CCC Secretary
3. Sciences DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path
1. 06/19/14 1:12 pm
   aronstam:
   Approved for RBIOLSCI Chair
2. 06/19/14 3:50 pm
   kleb6b: Approved for CCC Secretary
3. 07/30/14 7:35 am
   tauritzd:
   Approved for Sciences DSCC Chair
Experimental Course Title
Introduction to Astrobiology

Instructors
Mormile, Melanie

Catalog Description

Experimental Course Description
An overview of the origins of life on early earth and the possibility of life on extraterrestrial bodies will be examined in this course through lectures and journal articles. The techniques that astrobiologists use to investigate the possibility of life beyond earth will be explored. Assessment will be based on exam performance and participation in class.

Prerequisites
Bio Sci 2213 or Bio Sci 3313

Field Trip Statement

Credit Hours
LEC: 3.0  LAB: 0  IND: 0  RSD: 0
Total: 3.0

Justification for new course:
This is an upper level undergraduate course that is interdisciplinary in nature.

Semester(s) previously taught
Spring 2013

Co-Listed Courses:

CourseReviewer
# Course Inventory Change Request

## New Experimental Course Proposal

**Date Submitted:** 06/19/14 1:07 pm

**Viewing:** BIO SCI 3001.TBD: Introduction to Astrobiology

**File:** 4096

**Last edit:** 08/22/14 12:28 pm

**Changes proposed by:** mmormile

**Requested Effective Change Date:** Spring 2015

**Department:** Biological Sciences

**Discipline:** Biological Sciences (BIO SCI)

**Course Number:** 3001

**Topic ID:** TBD

**Experimental Title:** Introduction to Astrobiology

**Experimental Abbreviated Course Title:** Intro to Astrobiology

**Instructors:** Mormile, Melanie

**Experimental Catalog Description:**
An overview of the origins of life on early earth and the possibility of life on extraterrestrial bodies will be examined in this course through lectures and journal articles. The techniques that astrobiologists use to investigate the possibility of life beyond earth will be explored. Assessment will be based on exam performance and participation in class.

**Prerequisites:** Bio Sci 2213 or Bio Sci 3313.

**Field Trip Statement:**

**Credit Hours:**

<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>IND</th>
<th>RSD</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Justification for new course:**
This is an upper level undergraduate course that is interdisciplinary in nature.

**Semester(s) previously taught:**
Spring 2013

**Co-Listed Courses:**

**Course Reviewer Comments:**

---

**Approval Path**

1. 06/19/14 1:12 pm
   aronstam:
   Approved for RBIOlSCI Chair
2. 06/19/14 3:50 pm
   kleb6b: Approved for CCC Secretary
3. 07/30/14 7:35 am
   tauritzd:
   Approved for Sciences DSCC Chair
4. 07/30/14 7:43 am
   kleb6b: Approved for Pending CCC Agenda post
5. 08/22/14 12:28 pm
   kleb6b: Approved for CCC Meeting Agenda
6. 08/22/14 12:46 pm
   tschuman:
   Approved for Campus Curricula Committee Chair
# Course Inventory Change Request

## New Experimental Course Proposal

Date Submitted: 07/11/14 9:16 am  
Viewing: ELEC ENG 5001.TBD : Applied Nonlinear Control  
File: 4100  
Last edit: 07/11/14 10:29 am  
Changes proposed by: martins

<table>
<thead>
<tr>
<th>Requested Effective Change Date</th>
<th>Spring 2015</th>
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<tbody>
<tr>
<td>Department</td>
<td>Electrical and Computer Engineering</td>
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<tr>
<td>Discipline</td>
<td>Electrical Engineering (ELEC ENG)</td>
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<tr>
<td>Course Number</td>
<td>5001</td>
</tr>
<tr>
<td>Topic ID</td>
<td>TBD</td>
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<tr>
<td>Experimental Title</td>
<td>Applied Nonlinear Control</td>
</tr>
<tr>
<td>Experimental Abbreviated Course Title</td>
<td></td>
</tr>
<tr>
<td>Instructors</td>
<td>Dr. J. Sarangapani</td>
</tr>
</tbody>
</table>

### Experimental Catalog Description

### Prerequisites
- Elec Eng 3320 or graduate student standing.

### Field Trip Statement

### Credit Hours

<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>IND</th>
<th>RSD</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

### Justification for new course:

- to expand our graduate control course offerings

### Semester(s) previously taught

### Co-Listed Courses:

### Course Reviewer Comments