



Campus Curricula Committee Meeting Agenda

August 19, 2014

2:00-4:00 pm, Room 106B Parker Hall

Review of submitted Degree Change forms:

File #232 Aerospace: Aerospace Studies Minor
File #30.5 Applied and Environmental Biology: Applied and Environmental Biology MS
File #150.4 Chemical Engineering: Chemical Engineering BS
File #15.1 Chemical Engineering: Chemical Engineering PhD
File #135.9 Technical Communication: Technical Communications MS

Review of submitted Course Change forms:

File #2004.1 Art 1185: Study of Film
File #4091 Biological Sciences 6223: Research Proposal Writing
File #2329.5 Computer Engineering 3151: Digital Engineering Lab II
File #666.1 Computer Sciences 3803: Computer Organization
File #2214.2 Electrical Engineering 4096: Electrical Engineering Senior Project I
File #1173.1 Geological Engineering 1150: Introduction to Physical Geology
File #840.1 Geological Engineering 2605: Statics and Mechanics of Geologic Materials
File #392.1 Geological Engineering 3175: Geomorphology and Terrain Analysis
File # 567.1 Geological Engineering 4115: Statistical Methods in Geology and Engineering
File #1928.1 Geological Engineering 5315: Advanced Statistical Methods in Geology and Engineering
File #4099 Philosophy 2010: Medieval Philosophy
File # 4093 Political Science 3210: Constitutional Law: Government Powers and Civil Liberties
File #986.1 Technical Communication 6450: Advanced International Technical Communication

Review of submitted Experimental Course forms:

File #4096 Biological Sciences 3001: Introduction to Astrobiology
File #4100 Electrical Engineering 5001: Applied Nonlinear Control

BS Curriculum Standard – Dr. Tom Schuman reporting

AY 2014-2015 Curricula Meeting Dates

AY 2014-2015 Curricula Form Submission Deadlines

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

[Biological Sciences](#)

Start Term **Fall 2015 8/1/2014**

Program Code A&E BIO-MS

Department Biological Sciences

Title

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. juliep

Approval Path

1. 05/12/14 3:37 pm
aronstam: Approved
for RBIOLSCI Chair
2. 05/12/14 3:56 pm
kleb6b: Approved
for CCC Secretary
3. 07/30/14 7:37 am
tauritzd: Approved
for Sciences DSCC
Chair

History

1. Apr 28, 2014 by
shannonk

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.

Justification for
request

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.

Supporting
Documents

Course Reviewer
Comments

tauritzd (07/30/14 7:36 am): This form was submitted too late to be effective FS2014, thus the effective term has been changed to the next possible, which is FS2015.

Key: 30

Program Change Request

Date Submitted: 06/17/14 3:29 pm

Viewing: **CH ENG-BS : Chemical Engineering BS**

File: 150.4

Last approved: 05/02/14 3:49 pm

Last edit: 07/16/14 10:30 am

Changes proposed by: marlene

Catalog Pages

Using this

Program

[Chemical & Biochemical Engineering](#)

Start Term **Fall 2015** ~~8/15/2014~~

Program Code CH ENG-BS

Department Chemical and Biochemical Engineering

Title

In Workflow

1. RCHEMENG 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. juliep

Approval Path

1. 07/02/14 8:12 am
aldahhanm:
Approved for
RCHEMENG Chair
2. 07/07/14 9:21 am
kleb6b: Approved
for CCC Secretary
3. 07/16/14 10:30 am
sraper: Approved
for Engineering
DSCC Chair

History

1. Mar 18, 2014 by
lahne
2. May 2, 2014 by
lahne

Chemical Engineering BS

Program Requirements and Description

Bachelor of Science Chemical Engineering

Entering freshmen desiring to study Chemical Engineering will be admitted to the Freshman Engineering Program. They will be permitted, if they wish, to state a Chemical Engineering preference, which will be used as a consideration for available freshman departmental scholarships. The focus of the Freshman Engineering program is on enhanced advising and career counseling, with the goal of providing to the student the information necessary to make an informed decision regarding the choice of a major.

For the Bachelor of Science degree in Chemical Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry and basic ROTC courses. An average of at least two grade points per credit hour must be attained. At least two grade points per credit hour must also be attained in all courses taken in Chemical Engineering.

Each student's program of study must contain a minimum of 21 credit hours of course work in general education and must be chosen according to the following rules:

1. All students are required to take one American history course, one economics course, one humanities course, and [ENGLISH 1120](#) . The history course is to be selected from [HISTORY 1200](#) , [HISTORY 1300](#) , [HISTORY 1310](#) , or [POL SCI 1200](#) . The economics course may be either [ECON 1100](#) or [ECON 1200](#) . The humanities course must be selected from the approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater.
2. Depth requirement. Three credit hours must be taken in humanities or social sciences at the **1000** ~~100~~-level or above and must be selected from the approved list. This course must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 70 or 80 will be considered to satisfy this requirement. Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the **3000** ~~300~~-level. All courses taken to satisfy the depth requirement must be taken after graduating from high school.
3. The remaining two courses are to be chosen from the list of approved humanities/social sciences courses and may include one communications course in addition to [ENGLISH 1120](#) .
4. Any specific departmental requirements in the general studies area must be satisfied.
5. Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman.

The Chemical Engineering program at Missouri S&T is characterized by its focus on the scientific basics of engineering and its innovative application; indeed, the underlying theme of this educational program is the application of the scientific basics to engineering practice through attention to problems and needs of the public. The necessary interrelations among the various topics, the engineering disciplines, and the other professions as they naturally come together in the solution of real world problems are emphasized as research, analysis, synthesis, and design are presented and discussed through classroom and laboratory instruction.

Free Electives Footnote:

Free electives. Each student is required to take six hours of free electives in consultation with his/her academic advisor. Credits which do not count towards this requirement are deficiency courses (such as algebra and trigonometry) and extra credits in required courses. Any courses outside of engineering and science must be at least three credit hours.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	MECH ENG 1720	3
CHEM 1310	4	CHEM ENG 1100 , or COMP SCI 1970 <i>and</i> COMP SCI 1980 , or COMP SCI 1971 <i>and</i> COMP SCI 1981 , or COMP SCI 1570 <i>and</i>	3

COMP SCI 1580			
CHEM 1319	1	CHEM 1320	3
ENGLISH 1120	3	MATH 1215	4
HISTORY 1200 , or 1300 , or 1310 , or POL SCI 1200	3	PHYSICS 1135	4
MATH 1214	4		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CHEM ENG 2100 ¹	3	CHEM ENG 2310 ⁴	1
CHEM 2210	4	CHEM ENG 2110 ¹	3
ECON 1100 or 1200	3	CHEM ENG 2300	3
MATH 2222	4	Humanities or Social Science Electives ²	3
PHYSICS 2135	4	Humanities or Social Science Elective ²	3
		MATH 3304	3
	18		16
Junior Year			
First Semester	Credits	Second Semester	Credits
CHEM ENG 3100	3	CHEM ENG 4100 ⁴	2
CHEM ENG 3110	2	CHEM ENG 3130	3
CHEM ENG 3120	3	CHEM ENG 3140	3
CHEM 3410	3	CHEM ENG 3160	3
Humanities or Social Science Elective ²	3	Chem & Lab Elective ⁵	4
Humanities or Social Science Elective ²	3		
	17		15
Senior Year ³			
First Semester	Credits	Second Semester	Credits
CHEM ENG 4130 ⁴	3	CHEM ENG 4096	2
CHEM ENG 4110	3	CHEM ENG 4140	3
CHEM ENG 4120 ⁴	1	CHEM ENG 4097 ⁴	3
CHEM ENG 3150	3	CHEM ENG 3XX-Chem Eng Elective ⁷	3
CHEM ENG 3XX-Chem Eng Elective ⁷	3	Free Electives ⁸	3
Free Electives ⁸	3		
	16		14
Total Credits: 129			

Note: The minimum number of hours required for a degree in Chemical Engineering is 128.

A cumulative grade point average of 2.25 or better is required for admittance as a chemical engineering major.

1	A grade of "C" or better is required to meet chemical engineering degree requirements.
2	From approved list published on the website of Undergraduate Studies. Courses that fulfill the upper level requirement are designated in the list. The prerequisites for the upper level course must be completed with a passing grade.
3	Prior to graduation, all chemical engineering majors must take the Fundamentals of Engineering exam (See Assessment Requirements, Major Field). A passing grade is not required to earn a degree, however it is the first step toward becoming a registered professional engineer. Students must sign a release form giving the University access to their Fundamentals of Engineering examination score.
4	Communications emphasized course (See Bachelor of Science Degree, General Education Communications Requirement).
5	COMP SCI 1570 and COMP SCI 1580 are 4 credits total.
6	CHEM 2510 or CHEM 2220 and CHEM 2289 or CHEM 3430 and CHEM 3419 or CHEM 4610 and CHEM 4619 or BIO SCI 2213 and BIO SCI 2219 . CHEM 4610 and CHEM 4619 are 5 credits total.
7	Any CHEM ENG 3XXX class but only one of CHEM ENG 4000 , CHEM ENG 4099 or CHEM ENG 4099H can be used to fulfill this requirement.
8	Each student is required to take six hours of free electives in consultation with his/her academic advisor. Credits which do not count towards this requirement are deficiency courses (such as algebra and trigonometry), and extra credits in required courses. Any courses outside of Engineering and Science must be at least three credit hours. ELEC ENG 2800 recommended for preparation for Fundamentals of Engineering exam.

Chemical Engineering Biochemical Engineering Emphasis

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	MECH ENG 1720	3
CHEM 1310	4	CHEM ENG 1100 , or COMP SCI 1970 <i>and</i> COMP SCI 1980 , or COMP SCI 1971 <i>and</i> COMP SCI 1981 , or COMP SCI 1570 <i>and</i> COMP SCI 1580 ⁵	3
CHEM 1319	1	CHEM 1320	3
ENGLISH 1120	3	MATH 1215	4
HISTORY 1200 , or 1300 , or 1310 , or POL SCI 1200	3	PHYSICS 1135	4
MATH 1214	4		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
BIO SCI 2213	3	BIO SCI 3313	3
BIO SCI 2219	1	BIO SCI 3319	2

CHEM ENG 2100 ¹	3	CHEM ENG 2110 ¹	3
CHEM 2210	4	CHEM ENG 2300	3
MATH 2222	4	CHEM 2220	4
PHYSICS 2135	4	CHEM 2289	1
		MATH 3304	3
	19		19
Junior Year			
First Semester	Credits	Second Semester	Credits
BIO SCI 4323	3	CHEM ENG 2310 ⁴	1
BIO SCI 4329	2	CHEM ENG 3130	3
CHEM ENG 3100	3	CHEM ENG 3160	3
CHEM ENG 3110	2	CHEM ENG 3200	3
CHEM ENG 3120	3	ECON 1100 or 1200	3
CHEM 3410	3	General Education Elective ²	3
	16		16
Senior Year ³			
First Semester	Credits	Second Semester	Credits
CHEM ENG 4110	3	CHEM ENG 4096	2
CHEM ENG 4120 ⁴	1	CHEM ENG 4210	3
CHEM ENG 4200 ⁴	2	CHEM ENG 4220 ⁴	3
CHEM ENG 3150	3	CHEM ENG 4097 ⁴	3
General Ed Upper Level Electives ⁵	3	General Education Elective ²	3
General Education Upper Level Elective ²	3		
	15		14
Total Credits: 132			

Note: The minimum number of hours required for a degree in Chemical Engineering **with an emphasis in Biochemical Engineering** is 130.

A cumulative grade point average of 2.25 or better is required for admittance as a chemical engineering major.

- | | |
|---|--|
| 1 | A grade of "C" or better is required to meet chemical engineering degree requirements. |
| 2 | From approved list posted on the website of Undergraduate Studies. Courses that fulfill the upper level requirement are designated in the list. The prerequisites for the upper level course must be completed with a passing grade. |
| 3 | Prior to graduation, all chemical engineering majors must take the Fundamentals of Engineering exam (See Assessment Requirements, Major Field). A passing grade is not required to earn a degree, however, it is the first step toward becoming a registered professional engineer. Students must sign a release form giving the University access to their Fundamentals of Engineering examination score. |

4 Communications emphasized course (See Bachelor of Science Degree, General Education Communications Requirement).

5 [COMP SCI 1570](#) and [COMP SCI 1580](#) are 4 credits total.

Justification for

request

Deleted subscript 1 from all Chem Eng courses except Chem Eng 2100 & Chem Eng 2110 per faculty meeting minutes and vote of April 9, 2014.

June 17, 2014 - Corrected foreign language numbers, changed 3XX to 3XXX references and changed explanation of total hours at 130 for Chemical Engineering degree with a Biochemical Emphasis. Marlene Albrecht

Supporting

Documents

Course Reviewer

Comments

sraper (06/13/14 10:08 am): Rollback: There are foreign language numbers need to be changed, there are 3xx, rather than 3xxx references, and you have 128 hours in two places, and 130 in another place.

kleb6b (06/13/14 10:10 am): Rollback: Rollback: There are foreign language numbers need to be changed, there are 3xx, rather than 3xxx references, and you have 128 hours in two places, and 130 in another place.

kleb6b (07/07/14 9:21 am): Change effective date to Fall 2015

sraper (07/16/14 10:30 am): at the CCC meeting, or before, the two foreign language numbers need to be changed. There are still 3xx references that should be changed to 3xxx.

Key: 150

Program Change Request

Date Submitted: 06/25/14 11:17 am

Viewing: **CH ENG-PHD : Chemical Engineering PhD**

File: 15.1

Last edit: 07/16/14 10:25 am

Changes proposed by: marlene

Catalog Pages

Using this

Program

[Chemical & Biochemical Engineering](#)

Start Term **Fall 2015**

Program Code CH ENG-PHD

Department Chemical and Biochemical Engineering

Title

In Workflow

1. RCHEMENG 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. juliep

Approval Path

1. 07/02/14 8:12 am
aldahhanm:
Approved for
RCHEMENG Chair
2. 07/07/14 9:21 am
kleb6b: Approved
for CCC Secretary
3. 07/16/14 10:25 am
sraper: Approved
for Engineering
DSCC Chair
4. 07/29/14 8:48 am
kleb6b: Approved
for Pending CCC
Agenda post

Chemical Engineering PhD

Program Requirements and Description

A candidate for the PhD degree normally follows a program of **72** ~~90~~-semester hours beyond the BS degree or **42** ~~60~~-semester hours beyond the MS degree. Research for MS and PhD may be coordinated, or a PhD may be pursued without an MS degree. The PhD coursework must satisfy the departmental core course requirements for the MS degree with an additional 6 credit hours of 400-level

coursework for a minimum of ~~12~~ 15 400-level credit hours. In addition to these course requirements, a candidate must prepare and defend a dissertation based on analytical and/or experimental research.

A grade of A in CHEM ENG 5110, CHEM ENG 6110, ~~CHEM-ENG 5110~~, ~~CHEM-ENG 6110~~, and CHEM ENG 6100 ~~CHEM-ENG 6100~~ will constitute passing the chemical reaction engineering, transport phenomena, and thermodynamics portions of the qualifying examination, respectively.

Candidates must participate in the department's teaching effort to earn their teaching experience. This takes place over one semester for the master's candidates and two semesters for the PhD candidates.

At least three members of the advisory committee have to be ChE faculty. The comprehensive examination, consisting of a written and oral presentation of a research proposal, should be taken in the semester following the completion of their course work and no later than six months prior to the final examination. The final examination, consisting of the dissertation defense, is conducted according to the rules of the Graduate Faculty, School of Engineering, and the department.

Justification for request

The number of credit hours beyond their BS degree had been incorrectly put at 90, but the department has been following 72 hours in recent years which is the university requirement. The ChBE faculty have agreed to formally put the requirement at 72 hours beyond BS and make the requirement beyond MS at 42 hours.

Supporting Documents

Course Reviewer Comments

kleb6b (07/07/14 9:21 am): Change effective date to Fall 2015

sraper (07/16/14 10:25 am): In the CCC meeting, the statement "School of Engineering" should be changed to the new structure name.

Program Change Request

Date Submitted: 04/25/14 8:43 am

Viewing: **MIL SC-MI : Military Science Minor**

File: 93.1

Last edit: 06/30/14 4:28 pm

Changes proposed by: lahne

Catalog Pages

Using this

Program

[Military Science](#)

Start Term **8/1/2014**

Program Code MIL SC-MI

Department Military Science - Army ROTC

Title

In Workflow

1. RMILARMY Chair
2. CCC Secretary
3. Social 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. juliep

Approval Path

1. 04/25/14 10:16 am
readth: Approved
for RMILARMY
Chair
2. 04/25/14 11:10 am
kleb6b: Approved
for CCC Secretary
3. 04/30/14 2:24 pm
kleb6b: Approved
for Pending CCC
Agenda post
4. 05/22/14 11:33 am
kleb6b: Rollback to
Pending CCC
Agenda post for
CCC Meeting
Agenda
5. 06/30/14 4:28 pm
lahne: Rollback to
CCC Secretary for
Pending CCC
Agenda post
6. 06/30/14 4:29 pm
lahne: Approved for
CCC Secretary
7. 06/30/14 4:36 pm
barryf: Approved for

Military Science Minor

Program Requirements and Description

Military Science Minor Curriculum

Required courses:

MIL ARMY 3250	Adaptive Tactical Leadership	3
MIL ARMY 3500	Leadership in Changing Environments	3
MIL ARMY 4250	Developing Adaptive Leaders	3
MIL ARMY 4500	Leadership in a Complex World	3

Elective courses:

History	(select one course)	3
HISTORY 2440	The American Military Experience	
HISTORY 3240	Contemporary Europe	
HISTORY 3360	Recent United States History	
HISTORY 3440	20th Century Americans In Combat	
HISTORY 3762	American Diplomatic History Since World War II	
Human Behavior	(select one course)	3
PSYCH 1101	General Psychology	
PHILOS 1115	Introduction To Logic	
PHILOS 25	Course PHILOS 25 Not Found	
SOCIOLOGY 81	Course SOCIOLOGY 81 Not Found	
PHILOS 1110	Practical Reasoning	

Justification for
request

Updating minor requirements.

Supporting
Documents

Course Reviewer
Comments

kleb6b (05/22/14 11:33 am): Rollback: Rollback

lahne (06/30/14 4:28 pm): Rollback: Per June 2014 FS meeting: adjust workflow to route proposal through DSCC-Social Sciences

Key: 93

Program Change Request

New Program Proposal

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

Viewing: **PROPOSED : Aerospace Studies
Minor**

File: 232

Last edit: 04/25/14 8:09 am

Changes proposed by: chronisterbk

Start Term	8/1/2014
Program Code	PROPOSED
Department	Aerospace Studies - Air Force ROTC
Title	

In Workflow

1. RMILISCI Chair
2. CCC Secretary
3. Pending CCC
Agenda post
4. CCC Meeting
Agenda
5. Campus Curricula
Committee Chair
6. FS Meeting Agenda
7. Faculty Senate
Chair
8. Registrar
9. juliep

Approval Path

1. 07/01/14 1:50 pm
sowam: Approved
for RMILISCI Chair
2. 07/07/14 9:17 am
kleb6b: Approved
for CCC Secretary

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 officership. 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.

<u>MIL AIR 1110</u>	Foundations Of The U.S. Air Force I	1
<u>MIL AIR 1120</u>	Foundations Of The U.S. Air Force II	1
<u>MIL AIR 2110</u>	The Evolution Of USAF Air And Space Power I	1
<u>MIL AIR 2120</u>	The Evolution Of USAF Air And Space Power II	1
<u>MIL AIR 3110</u>	Air Force Leadership Studies I	3

MIL AIR 3120	Air Force Leadership Studies II	3
MIL AIR 4110	National Security Affairs/Preparation For Active Duty I	3
MIL AIR 4120	National Security Affairs/Preparation For Active Duty II	3

Justification for
request

Department request

Supporting
Documents

Course Reviewer

Comments

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

Key: 232

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: 06/13/14 11:17 am

Changes proposed by: kswenson

Catalog Pages

Using this

Program

[Technical Communication](#)

Start Term	Fall 2015 8/1/2014
Program Code	TCH COM-MS
Department	English and Technical Communication
Title	

In Workflow

1. **REGLISH** Chair
2. **CCC** Secretary
3. **Arts & Humanities**
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. juliep

Approval Path

1. 04/24/14 9:58 am
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 3:29 pm
kleb6b: Approved
for CCC Secretary
3. 04/25/14 9:20 am
ivliyeva: Approved
for Arts &
Humanities DSCC
Chair
4. 04/30/14 2:38 pm
kleb6b: Approved
for Pending CCC
Agenda post
5. 05/21/14 4:24 pm
kleb6b: Rollback to
Pending CCC
Agenda post for
CCC Meeting
Agenda

History

1. Apr 23, 2014 by
kswenson

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.:

TCH COM 5620	Research Methods in Technical Communication	3
TCH COM 4520	Help Authoring	3
TCH COM 5510	Technical Editing	3
TCH COM 5530	Usability Studies	3
TCH COM 5610	History of Technical Communication	3
TCH COM 6600	Foundations of Technical Communication	3
TCH COM 5560	Web-Based Communication	3
TCH COM 5450	Course TCH COM 5450 Not Found	3
TCH COM 6440	Advanced Theories of Visual Technical Communication	3
TCH COM 5550	Advanced Proposal Writing	3
Total Credits		30

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.**

Justification for
request

Thesis students should register for research rather than additional coursework.

Supporting
Documents

Course Reviewer
Comments

kleb6b (05/21/14 4:24 pm): Rollback: Tabled until next meeting

kleb6b (06/13/14 11:17 am): Update Start Term

Key: 135

Course Inventory Change Request

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

Viewing: **ART 1185 : Study Of Film**

File: 2004.1

Last edit: 07/07/14 9:18 am

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

Spring 2015 ~~Fall 2014~~

Effective Change

Date

Department

Arts, Languages, & Philosophy

Discipline

Art (ART)

Course Number

1185

Title

In Workflow

1. **RPHILOSO Chair**

2. **CCC Secretary**

3. **Arts &
Humanities 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. 06/26/14 12:21
pm

lance: Approved
for RPHILOSO
Chair

2. 07/07/14 9:18 am
kleb6b: Approved
for CCC Secretary

3. 07/07/14 11:40
am
ivliyeva:
Approved for Arts
& Humanities
DSCC Chair

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.

Prerequisites

Field Trip

Statement

\$30 fee

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

Required for Majors	No
---------------------	-----------

Elective for Majors	No
---------------------	-----------

Justification for
change:

Lab fee

Semesters
previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

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: 05/12/14 3:07 pm

Changes proposed by: shannonk

Programs
referencing this
course

[A&E BIO-MS: Applied and Environ Biology MS](#)

Requested Spring 2015
Effective Change
Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 6223

Title

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
kleb6b: Approved
for CCC Secretary
3. 07/30/14 7:33 am
tauritzd:

Approved for
Sciences DSCC
Chair

Research Proposal Writing

Abbreviated Research Proposal
Course Title

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

No

Majors

Elective for

No

Majors

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

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4091

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

Last edit: 06/30/14 4:21 pm

Changes proposed by: lahne

Other Courses
referencing this
course

In The Prerequisites:

COMP ENG 5120 : Digital Computer Design

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

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 3151

Title

In Workflow

1. **RELECENG 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. 07/05/14 4:10 pm
kte: Approved for RELECENG Chair
2. 07/07/14 9:19 am
kleb6b: Approved for CCC Secretary
3. 07/16/14 10:24 am
srafer: Approved

for Engineering
DSCC Chair

History

1. Jun 30, 2014 by
stanleyj (2329.1)

Digital Engineering Lab II

Abbreviated Digital Eng Lab II
Course Title

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 No
Majors

Elective for No
Majors

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.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2329

Course Inventory Change Request

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

Viewing: **COMP SCI 3803** ~~3889~~: **Computer Organization**

File: 666.1

Last edit: 06/25/14 3:25 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	

In Workflow

1. **RCOMPSCI 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. 06/30/14 9:04 pm
sdas: Approved
for RCOMPSCI
Chair
2. 07/07/14 9:19 am
kleb6b: Approved
for CCC Secretary
3. 07/30/14 7:33 am
tauritzd:

Approved for
Sciences DSCC
Chair

Computer Organization

Abbreviated Computer Organization
Course Title

Catalog

Description

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

Prerequisites

A "C" or better in both Comp Eng 2210 and Comp Sci 1510. ~~Comp Sci 2889.~~

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:

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

Key: 666

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](#)

Other Courses
referencing this
course

In The Prerequisites:

[ELEC ENG 4097 : Electrical Engineering Senior Project II](#)

Requested Spring 2015
Effective Change
Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 4096

Title

In Workflow

1. RELECENG 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. 04/30/14 9:50 am
kte: Approved for RELECENG Chair
2. 04/30/14 9:52 am
kleb6b: Approved for CCC Secretary
3. 06/13/14 10:10 am
sraper: Approved

for Engineering
DSCC Chair

History

1. Apr 28, 2014 by
lahne (2214.1)

Electrical Engineering Senior Project I

Abbreviated EE Senior Project I
Course Title

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**, ~~241~~, 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.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2214

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-BS: Civil Engineering BS](#)

[EV ENG-BS: Environmental Engineering BS](#)

[GE ENG-BS: Geological Engineering BS](#)

[GE ENG-MI: Geological Engineering Minor](#)

[GEOL-MI: Geology Minor](#)

[MI ENG-BS: Mining Engineering BS](#)

[PE ENG-BS: Petroleum Engineering BS](#)

Other Courses
referencing this
course

In The Catalog Description:

[GEOLOGY 1111 : Introduction to Physical Geology](#)

In The Prerequisites:

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. Ishelton
11. Peoplesoft

Approval Path

1. 05/14/14 8:23 am
reflori: Approved
for RGEOENG
Chair
2. 05/14/14 8:35 am
kleb6b: Approved
for CCC Secretary
3. 06/13/14 10:13
am

craper: Approved
for Engineering
DSCC Chair

[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](#)

Requested	Spring 2015 Fall 2014
Effective Change	
Date	
Department	Geosciences and Geological and Petroleum Engineering
Discipline	Geological Engineering (GEO ENG)
Course Number	1150
Title	Introduction to Physical Geology

Abbreviated Intro Physical Geol

Course Title

Catalog

Description

A study of Earth materials, surface features, internal structures and processes.

Particular attention is paid to Earth resources, geological hazards, engineering and environmental problems.

Prerequisites

Entrance requirements.

Field Trip

Statement

Credit Hours

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

Required for

Yes ~~No~~

Majors

Elective for

No

Majors

Justification for

change:

Correction: This course is required for Geo Eng majors.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

GEOLOGY 1111 - Introduction to Physical Geology

Course Reviewer

Comments

Key: 1173

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 **Spring 2015** ~~Fall 2014~~

Effective Change

Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 2605

Title

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. Ishelton
11. Peoplesoft

Approval Path

1. 05/14/14 8:24 am
reflori: Approved
for RGEOENG
Chair
2. 05/14/14 8:36 am
kleb6b: Approved
for CCC Secretary
3. 06/13/14 10:20
am

sraper: Approved
for Engineering
DSCC Chair

Statics and Mechanics of Geologic Materials

Abbreviated Geo Matls Statics & Mech
Course Title

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
Comments

Key: 840

Course Inventory Change Request

Date Submitted: 04/26/14 2:39 pm

Viewing: **GEO ENG 3175 : Geomorphology And Terrain Analysis**

File: 392.1

Last edit: 06/13/14 10:21 am

Changes proposed by: gertschl

Programs

referencing this

course

[EV ENG-BS: Environmental Engineering BS](#)

[GE ENG-BS: Geological Engineering BS](#)

[GE ENG-MI: Geological Engineering Minor](#)

[GEOL-MI: Geology Minor](#)

[GL&GPH-BS: Geology and Geophysics BS](#)

Other Courses

referencing this

course

In The Prerequisites:

[GEO ENG 5146 : Applications Of Geographic Information Systems](#)

[GEO ENG 5172 : Soil Science In Engineering Practice](#)

[GEO ENG 5235 : Environmental Geological Engineering](#)

[GEO ENG 5237 : Geological Aspects Of Hazardous Waste Management](#)

[GEO ENG 5441 : Engineering Geology And Geotechnics](#)

[GEO ENG 5471 : Rock Engineering](#)

[GEO ENG 5575 : Aggregates And Quarrying](#)

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. Ishelton
11. Peoplesoft

Approval Path

1. 05/14/14 8:24 am
reflori: Approved for RGEOENG Chair
2. 05/14/14 8:36 am
kleb6b: Approved for CCC Secretary
3. 06/13/14 10:21 am

GEO ENG 5642 : Military Geology

sraper: Approved
for Engineering
DSCC Chair

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

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 3175

Title Geomorphology And Terrain Analysis

Abbreviated Geomorphol & Terr Analy
Course Title

Catalog

Description

Study of geomorphic processes, landform **development**, ~~development~~ and **surficial**
~~surficial~~ materials. **Stresses** ~~Course content stresses the~~ evaluation of the engineering
properties of terrain ~~factors~~ for site selection and design of engineered structures.

Prerequisites

Geo Eng **1150** ~~1150~~.

Field Trip

Statement

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

Required for **Yes** ~~No~~
Majors

Elective for No
Majors

Justification for
change:

Correction: This course is required for Geo Eng majors.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 392

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: 06/13/14 10:22 am

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

Spring 2015 ~~Fall 2014~~

Effective Change

Date

Department

Geosciences and Geological and Petroleum
Engineering

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. Ishelton
11. Peoplesoft

Approval Path

1. 05/14/14 8:25 am
reflori: Approved
for RGEOENG
Chair
2. 05/14/14 8:36 am
kleb6b: Approved
for CCC Secretary
3. 06/13/14 10:22
am

Discipline Geological Engineering (GEO ENG)

Course Number 4115

Title

Statistical ~~Geostatistical~~ Methods in **Geology Engineering** and **Engineering Geology**

Abbreviated **Statistics** ~~Geostatistics~~

Course Title ~~Methods Eng~~ Geol & Eng

sraper: Approved
for Engineering
DSCC Chair

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 **Yes** ~~No~~

Majors

Elective for No

Majors

Justification for
change:

Correction: This course is required for Geo Eng majors.

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 567

Course Inventory Change Request

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

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

File: 1928.1

Last edit: 06/13/14 11:16 am

Changes proposed by: gertschl

Requested **Spring 2015** ~~Fall 2014~~

Effective Change

Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 5315

Title

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. Ishelton
11. Peoplesoft

Approval Path

1. 05/14/14 8:26 am
reflori: Approved
for RGEOENG
Chair
2. 05/14/14 8:37 am
kleb6b: Approved
for CCC Secretary
3. 06/13/14 10:24
am

sraper: Approved
for Engineering
DSCC Chair

Advanced **Statistical** ~~Geostatistical~~ Methods in **Geology** ~~Engineering~~ and
Engineering ~~Geology~~

Abbreviated Adv **Statistics** ~~Geostatistics~~
Course Title ~~Methods Eng~~ Geo **& Eng**

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 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 No
Majors

Elective for No
Majors

Justification for
change:

Improve student preparation for the course content.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1928

Course Inventory Change Request

New Course Proposal

Date Submitted: 07/10/14 4:00 am

Viewing: **PHILOS 2010 : Medieval Philosophy**

File: 4099

Last edit: 07/10/14 4:00 am

Changes proposed by: finchj

Requested	Spring 2015
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Philosophy (PHILOS)
Course Number	2010
Title	

In Workflow

1. **RPHILOS Chair**
2. **CCC Secretary**
3. **Arts & Humanities 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. 07/11/14 6:02 am
lance: Approved for RPHILOS Chair
2. 07/11/14 10:29 am
kleb6b: Approved for CCC Secretary

3. 07/11/14 11:45
am
ivliyeva:
Approved for Arts
& Humanities
DSCC Chair

Medieval Philosophy

Abbreviated Medieval Philosophy
Course Title

Catalog

Description

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.

Prerequisites

None.

Field Trip

Statement

No field trips.

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

Required for Majors	No
------------------------	----

Elective for Majors	Yes
------------------------	-----

Justification for

new course:

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.

Semesters

previously
offered as an
experimental
course

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.

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4099

Course Inventory Change Request

New Course Proposal

Date Submitted: 06/17/14 9:46 am

Viewing: **POL SCI 3210 : Constitutional Law:
Government Powers and Civil Liberties**

File: 4093

Last edit: 06/17/14 3:11 pm

Changes proposed by: lgragg

Requested	Fall 2015
Effective Change	
Date	
Department	History and Political Science
Discipline	Political Science (POL SCI)
Course Number	3210
Title	

In Workflow

1. RHISTORY Chair
2. CCC Secretary
3. Arts & Humanities 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. lshelton
11. Peoplesoft

Approval Path

1. 06/17/14 9:47 am
lgragg: Approved for RHISTORY Chair
2. 06/17/14 3:11 pm
kleb6b: Approved for CCC Secretary
3. 06/17/14 5:12 pm

ivliyeva:
Approved for Arts
& Humanities
DSCC Chair

Constitutional Law: Government Powers and Civil Liberties

Abbreviated Constitutional Law
Course Title

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:

Course Reviewer

Comments

Key: 4093

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

Requested **Spring 2015** ~~Fall 2014~~

Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number **6450** ~~5450~~

Title

In Workflow

1. **RENGLISH Chair**
2. **CCC Secretary**
3. **Arts & Humanities 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. 05/21/14 3:04 pm
kswenson:
Approved for
RENGLISH Chair
2. 05/23/14 7:47 am
kleb6b: Approved
for CCC Secretary
3. 05/23/14 7:49 am

ivliyeva:
Approved for Arts
& Humanities
DSCC Chair

Advanced International Technical Communication

Abbreviated Adv International Tech Com
Course Title

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

Co-Listed
Courses:

Course Reviewer
Comments

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

Requested Spring 2015

Effective Change

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 3001

Topic ID TBD

Title

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

Abbreviated
Course Title

Experimental Introduction to Astrobiology

Course Title

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:

Course Reviewer

Comments

Key: 4096

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 07/11/14 9:16 am

Viewing: **ELEC ENG 5001.TBD :**

File: 4100

Last edit: 07/11/14 10:29 am

Changes proposed by: martins

Requested Spring 2015

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 5001

Topic ID TBD

Title

Abbreviated

Course Title

Experimental

Course Title

Applied Nonlinear Control

Instructors Dr. J. Sarangapani

Catalog

Description

Experimental Course Description Review of State Variable Models, Nonlinear Model and Phenomena, Lyapunov Stability, Phase Plane Analysis, Feedback Linearization, Sliding Mode and Backstepping Control, and Control Applications.

Prerequisites Elec Eng 3320 or graduate student standing.

Field Trip

In Workflow

1. RELECENG Chair
2. CCC Secretary
3. Engineering DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar

Approval Path

1. 07/11/14 9:18 am
kte: Approved for RELECENG Chair
2. 07/11/14 10:29 am
kleb6b: Approved for CCC Secretary
3. 07/30/14 6:44 pm
sraper: Approved for Engineering DSCC Chair

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for
new course: to expand our graduate control course offerings

Semester(s)
previously taught

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4100