



Minutes of the Campus Curricula Committee Meeting

May 19, 2014

12:00 p.m., Room 117 Fulton Hall

Attendees: Lahne Black, Kaylon Buckner, Barry Flachsbart (via phone), Petra Dewitt, Kristy Giacomelli, Irina Ivliyeva (via Skype), Deanne Jackson, Bih-Ru Lea, Gearoid MacSithigh, Ilene Morgan, Keith Nisbett, Steve Raper, Thomas Schuman, Daniel Tauritz, and Paul Worsey.

The following curriculum forms were discussed and approved:

Degree Change Forms:

File #7.6	File #146.1
File #147.1	File #25.1
File #149.14	File #152.4
File #155.1	File #231.2
File #225	File #157.1
File #85.3	File #86.25
File #94.1	File #104.1
File #105.1	File #235
File #192.1	File #132.5
File #181.5	

Course Change Forms:

File #964.1	File #1363.1
File #1939.1	File #2633.1
File #4056	File #4057
File #2317.8	File #1272.3
File #507.1	File #2318.5
File #2146.3	File #4070
File #370.1	File #475.1
File #1627.1	File #2329.1
File #71.1	File #764.1
File #1081.1	File #1770.1
File #716.1	File #550.1
File #2051.1	File #4069
File #4059	File #4050 (approved as EC)
File #554.1	File #4049
File #2074.1	File #4051



- File #4052
- File #898.1
- File #32.1
- File #2527.1
- File #4077
- File #2218.1
- File #830.1
- File #4027
- File #4063 (approved as EC)
- File #1793.1
- File #1897.1
- File #1895.1
- File #4080
- File #2391.5
- File #920.5
- File #1871.4
- File #445.1
- File #2659.1
- File #4060
- File #4071
- File #460.1
- File #4073
- File #4087
- File #4062
- File #4082
- File #4083
- File #1697.1
- File #2528.1
- File #1563.1
- File #2231.1
- File #1937.1
- File #1484.1
- File #715.1
- File #817.1
- File #1402.1
- File #4053
- File #2343.1
- File #976.1
- File #2577.1
- File #4076
- File #1890.1
- File #809.1
- File #831.1
- File #1893.1
- File #1511.1
- File #1896.1
- File #951.1
- File #935.4
- File #925.4
- File #2254.4
- File #961.1
- File #1614.4
- File #1578.1
- File #4061
- File #4058
- File #4074
- File #1229.6
- File #4088
- File #4054
- File #4075
- File #4081
- File #1898.1
- File #1573.1
- File #1313.1
- File #1807.1
- File #1362.1
- File #1753.1
- File #2098.1
- File #1198.1

Experimental Course Forms:

File #4068
File #4064
File #4090
File #4067
File #4084

File #4085
File #4065
File #4066
File #4086

File #4078 Geological Engineering 1001 and File #4079 Geological Engineering 1001 were shredded as their permanent course counterparts were approved.

File #4031 Mining Engineering 4001 was rolled back to the issuing department for clarification.

File #4089 Mining Engineering 5001 was rolled back to the issuing department for modification of the prerequisites.

File #299.1 Civil Engineering 2003 was shredded because the requested action changing its number of credit hours would require an accompanying DC form.

File #523.1 Technical Communication 3001 and File #1103.1 Technical Communication 5001 were shredded because the placeholder courses for special topics are pre-approved.

File #93.1 Military Science Minor was tabled because that minor needs to be associated with a DSCC before its curricula forms may be considered by a DSCC and the CCC pursuant Section D.6.f(2) of the S&T Faculty Bylaws.

File #135.9 Technical Communication MS was tabled because the number of 6000-level required lecture course credit hours falls short of the minimal requirement as stated in the Graduate Catalog.

Kristy Giacomelli was introduced as the new Assistant Registrar.

The 2014-2015 Campus Curricula Committee members were all present and elected Dr. Thomas Schuman as their chair, who accepted the position. The new committee and chair appointments are effective August 1st 2014.

The first meeting date for Fall 2014 was proposed as August 19, 2014 from 2:00-3:30 p.m., with approval to come via email.

The Committee unanimously voted to employ Google Groups for future electronic correspondence in order to automate the archiving of its electronic deliberations and make them easily accessible to both present and future members.

The Committee unanimously voted to add to the agenda the NC Form for the name change of the Geological Sciences and Engineering (GSE) department to Geosciences and Geological and Petroleum Engineering (GGPE). The form was approved with no objections.

The Committee unanimously voted to recommend the following new Experimental Course (EC) policy to Faculty Senate:

An EC form must be submitted before an experimental course is to be offered. An EC form allows an experimental course to be offered unlimited times during the five year period following its approval. A CC form may be submitted to request a permanent course number, if that course has been offered experimentally at least two times during the preceding five year period.

The Committee discussed its charge from RP&A to propose a comprehensive campus standard for the minimal requirements for Bachelor of Science degree programs. Dr. Thomas Schuman is taking the lead on drafting the proposal which will be discussed further via E-mail and, if necessary, at the CCC's next meeting.

Dr. Daniel Tauritz will electronically propose AY 2014-2015 Curricula Form Submission Deadlines for the Committee's approval.

The Committee discussed the minor approval process workflow currently in use versus the written version posted on the VPAA's website; Dr. Daniel Tauritz has been tasked with drafting a new written version corresponding closely to the actual one in use.

The meeting adjourned at 4:40 p.m.



Daniel Tauritz, Chair
Missouri S&T Campus Curricula Committee

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 04/03/14 8:53 am

Viewing: **AERO ENG 6001.TBD : The**

Thermo-Fluid Dynamics of Advanced Aerospace Propulsion Systems

File: 4068

Last edit: 04/09/14 11:31 am

Changes proposed by: isaac

Requested Fall 2014

Effective Change

Date

Department Mechanical & Aerospace Engineering

Discipline Aerospace Engineering (AERO ENG)

Course Number 6001

Topic ID TBD

Title

In Workflow

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

Approval Path

1. 04/03/14 8:54 am
drallmei:
Approved for
RMECHENG Chair
2. 04/03/14 12:00 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:32 am
srapr: Approved
for Engineering
DSCC Chair

The Thermo-Fluid Dynamics of Advanced Aerospace Propulsion Systems

Abbreviated Advanced Propulsion

Course Title

Experimental

Course Title

Instructors David Riggins

Catalog

Description

Technically intensive descriptions and analyses of conventional, non-conventional, and advanced aerospace propulsion systems and propulsion system performance from the standpoint of fundamental thermodynamics and fluid/gas dynamics

Experimental

Course

Description

Prerequisites

AE 5535 Aerospace Propulsion Systems

Field Trip

Statement

Field trip is not part of the course

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

Total: 3

Justification for

new course:

Some aerospace engineering grad students need the course for their research.

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4068

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 04/24/14 6:49 am

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

Control

File: 4085

Last edit: 04/24/14 6:49 am

Changes proposed by: kte

Requested	Spring 2015
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	5001
Topic ID	TBD
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. Registrar
8. Peoplesoft

Approval Path

1. 04/24/14 6:50 am
kte: Approved for RELECENG Chair
2. 04/24/14 7:42 am
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:18 am
sraper: Approved for Engineering DSCC Chair

PLC Motion Control

Abbreviated	PLC Motion Control
Course Title	

Experimental

Course Title

Instructors

Kelvin Erickson

Catalog

Description

Factory automation motion control using the programmable logic controller (PLC). Standard applications such as simple motion control, coordinated motion of two or three axes, flying shear, electronic camming, and web tension control. Laboratory exercises and team project.

Experimental

Course

Description

Prerequisites

ELEC ENG 3340

Field Trip

Statement

Credit Hours

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Companies that hire our graduates for automation engineering positions have requested that graduates be familiar with motion control in factory automation. Campus has committed to half of the funds needed to support the acquisition of equipment for the laboratory. The other half of the funds are expected within the next two months.

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4085

New Experimental Course Proposal

Date Submitted: 03/17/14 2:52 pm

Viewing: **GEO ENG 6001.TBD : Advanced
Engineering Geology & Geotechnics**

File: 4064

Last edit: 05/21/14 9:30 am

Changes proposed by: rogersda

Requested Fall 2014

Effective Change

Date

Department Geological Sciences and Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 6001

Topic ID TBD

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. **Registrar**
8. Peoplesoft

Approval Path

1. 04/24/14 7:38 am
reflori: Approved
for RGEOENG
Chair
2. 04/24/14 9:25 am
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:17 am
sraper: Approved
for Engineering
DSCC Chair
4. 04/30/14 11:48
am
kleb6b: Approved
for Pending CCC
Agenda post
5. 05/21/14 9:30 am

kleb6b: Approved
for CCC Meeting
Agenda

6. 05/22/14 5:35 pm
tauritzd:
Approved for
Campus Curricula
Committee Chair

Advanced Engineering Geology & Geotechnics

Abbreviated Course Title Adv Eng Geol & Geotech

Experimental Course Title Advanced Engineering Geology & Geotechnics

Instructors J. David Rogers

Catalog

Description

This course provides advanced training in engineering geologic and geotechnical site characterization, including interpretation of subsurface data, testing, and analyses of soil and rock samples. Emphasis will be on case studies involving the application of soil mechanics, rock mechanics, channel scour, and seepage analysis.

Experimental

Course

Description

This course provides advanced training in engineering geologic and geotechnical site characterization, including interpretation of subsurface data, testing, and analyses of soil and rock samples. Emphasis will be on case studies involving the application of soil mechanics, rock mechanics, channel scour, and seepage analysis.

Prerequisites

Preceded or accompanied by both GEO ENG 5441 and GEO ENG 5443.

Field Trip

Statement

Will have local field trips to observe cut slope and fill slope failures, deformed retaining walls, and failed culverts in the local area

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

Justification for
new course:

This course was previously in our curriculum as GE 441 up through 2004, when the course title was changed to "Geotechnical Construction Practice," to better reflect its revised content, which focused on earthwork and site remediation, including surface mine reclamation. The proposed course is intended to be a graduate level follow-on to "Engineering Geology & Geotechnics" (GE 341), presently a required senior level course taught by J. David Rogers and Robert Clark.

Semester(s)
previously taught

Previously taught in Spring semesters of 2002, 2003, and 2004.

Co-Listed
Courses:

Course Reviewer
Comments

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 03/17/14 3:15 pm

Viewing: **GEO ENG 6001.TBD : Field Methods
for Site Investigation**

File: 4065

Last edit: 04/24/14 9:25 am

Changes proposed by: rogersda

Requested Fall 2014

Effective Change

Date

Department Geological Science and Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 6001

Topic ID TBD

Title

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. Registrar
8. Peoplesoft

Approval Path

1. 04/24/14 7:39 am
reflori: Approved
for RGEOSENG
Chair
2. 04/24/14 9:26 am
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:17 am
sraper: Approved
for Engineering
DSCC Chair

Field Methods for Site Investigation

Abbreviated Field Method Site Invest

Course Title

Experimental

Course Title

Instructors James L. Bunch or J. David Rogers

Catalog

Description

Capstone course intended to familiarize students with practical aspects of site investigation by integrating concepts from previous courses, using simulated site investigation and analyses, summarized in oral and written presentations. Project planning aspects will include scoping, design, implementation, cost estimating, contract management, and close out.

Experimental

Course

Description

Prerequisites

GEO ENG 5443 Subsurface Investigation and GEO ENG 5441 Engineering Geology and Geotechnics; concurrent enrollment permitted.

Field Trip

Statement

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

Total: 3

Justification for

new course:

This is intended to be a graduate level "capstone design course," intended to integrate the various elements essential to completing a actual consultation involving various kinds of subsurface investigation techniques, analyses, remediation design, and an introduction to the project management and controls elements essential to any geoengineering report. Students will visit actual remediation sites within 100 miles of campus, be provided with actual subsurface data, and encouraged to sit for the

Project Management Professional (PMP) examination once they have gained sufficient work experience.

Semester(s)

previously taught

not previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4065

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 04/28/14 1:57 pm

Viewing: **HISTORY 4001.TBD :**

File: 4090

Last edit: 05/21/14 9:38 am

Changes proposed by: schrammj

Requested	Spring 2015
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	4001
Topic ID	TBD
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. Registrar
8. Peoplesoft

Approval Path

1. 04/29/14 6:48 am
lragg: Approved for RHISTORY Chair
2. 04/29/14 7:48 am
kleb6b: Approved for CCC Secretary
3. 04/29/14 9:26 am
ivliyeva: Approved for Arts & Humanities DSCC Chair
4. 04/30/14 1:05 pm

- kleb6b: Approved
for Pending CCC
Agenda post
5. 04/30/14 1:06 pm
kleb6b: Rollback
to Pending CCC
Agenda post for
CCC Meeting
Agenda
6. 04/30/14 2:14 pm
kleb6b: Approved
for Pending CCC
Agenda post
7. 05/21/14 9:36 am
kleb6b: Approved
for CCC Meeting
Agenda
8. 05/21/14 9:38 am
kleb6b: Rollback
to CCC Meeting
Agenda for
Campus Curricula
Committee Chair

Abbreviated
Course Title

Experimental Course Title Chicago: Architecture, History and Technology

Instructors Schramm

Catalog
Description

Experimental

Course

Description

This course is an examination of the social and technological history of modern architecture from the late 1800s to today using Chicago as an example. The course will meet for two weeks in Chicago and will consist of on site lectures and examinations, tours, projects and other assignments. Prep work prior to arrival in Chicago is required.

Prerequisites

HISTORY 1100, 1200, 1300, 1310 or POL SCI 1200. Recommended, HISTORY 2510.

Field Trip

Statement

The course is held on site in Chicago. Students will be responsible for the additional costs incurred including but not limited to: food and lodging, transportation, tours, and admission fees.

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

This course will use the incomparable resources of Chicago and the Chicagoland area. By being on site architecture can be experienced in its truest form. The many local resources available combined with classroom instruction and outside of class readings and other resources provide for a unique and expansive study of the history of modern architecture and its social and technological ramifications and underpinnings. Mornings are planned to include classroom type instruction while afternoons are available for tours and other activities. The course is planned to be equivalent to History 375 for Architectural Engineering majors and will substitute for 375 in graduation requirements. Course is planned to be offered during intercession.

Semester(s)

previously taught

New course. Similar in some ways with History 375 which has been taught since 2005.

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (04/30/14 1:06 pm): Rollback: Printing Error

kleb6b (05/21/14 9:38 am): Rollback: Rollback

Key: 4090

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 03/18/14 8:49 am

Viewing: **MIN ENG 6001.TBD : Advanced**

Flotation

File: 4066

Last edit: 04/21/14 3:40 pm

Changes proposed by: cifarellit

Requested	Fall 2014
Effective Change Date	
Department	Mining & Nuclear Engineering
Discipline	Mining Engineering (MIN ENG)
Course Number	6001
Topic ID	TBD
Title	

In Workflow

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

Approval Path

1. 03/19/14 9:29 am
frimpong:
Approved for
RMINNUCL Chair
2. 03/19/14 10:32
am
kleb6b: Approved
for CCC Secretary
3. 04/21/14 2:19 pm
srafer: Rollback
to RMINNUCL
Chair for
Engineering DSCC
Chair

4. 04/21/14 2:22 pm
frimpong:
Approved for
RMINNUCL Chair
5. 04/21/14 3:31 pm
kleb6b: Approved
for CCC Secretary
6. 04/21/14 3:40 pm
sraper: Approved
for Engineering
DSCC Chair

Advanced Flotation

Abbreviated Course Title Advanced Flotation

Course Title

Experimental

Course Title

Instructors Dr. Lana Alagha

Catalog

Description

Advanced theory of flotation including: Hydrophobic-hydrophobic interactions, stability of colloidal dispersions, electrical characteristics at different interfaces, thermodynamics of froth flotation, kinetics of flotation, hydrodynamics of bubble-particle collision, flotation reagents, flotation machines, flotation circuits, flotation industrial practices.

Experimental

Course

Description

Prerequisites

Min Eng 4423 or Graduate Standing

Field Trip

Statement

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

Justification for new course:

This course is a core requirement for the Master of Engineering Degree program in Mining Engineering.

Semester(s) previously taught

Co-Listed Courses:

Course Reviewer

Comments

sraper (04/21/14 2:19 pm): Rollback: Sam, Please clarify: If this course is needed for summer a 3 digit EC is required. If fall, the 4 digit is ok, but it would need the new 4 digit pre-req. Also we changed title and abbreviation to Advanced rather than advance.

sraper (04/21/14 3:40 pm): Changed to Fall 2014 based on phone confirmation.

Key: 4066

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 03/26/14 1:21 pm

Viewing: **MIN ENG 6001.TBD : Coal Processing
Plant Design**

File: 4067

Last edit: 05/21/14 9:47 am

Changes proposed by: jrussell

Requested	Fall 2014
Effective Change Date	
Department	Mining & Nuclear Engineering
Discipline	Mining Engineering (MIN ENG)
Course Number	6001
Topic ID	TBD
Title	

In Workflow

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

Approval Path

1. 04/21/14 2:22 pm
frimpong:
Approved for
RMINNUCL Chair
2. 04/21/14 3:31 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:35 am
sraper: Approved
for Engineering
DSCC Chair
4. 04/30/14 2:25 pm
kleb6b: Approved
for Pending CCC

Agenda post

5. 05/21/14 9:47 am
kleb6b: Approved
for CCC Meeting
Agenda

Coal Processing Plant Design

Abbreviated Course Title	Coal Proc Plant Design
Experimental Course Title	Coal Processing Plant Design
Instructors	Ahmed Sobhy

Catalog

Description

Design coal preparation plant by integrating unit operations proceeded by certain back-up laboratory experiments. Methodology used to select the appropriate unit operation, predict their respective performances, determine the optimum operating conditions and select the required size of the unit. Product quality assurance program / monitoring plant efficiency.

Experimental

Course

Description

Design coal preparation plant by integrating unit operations proceeded by certain back-up laboratory experiments. Methodology used to select the appropriate unit operation, predict their respective performances, determine the optimum operating conditions and select the required size of the unit. Product quality assurance program / monitoring plant efficiency.

Prerequisites

Any 4400 Level Mineral Processing Course or equivalent; graduate standing.

Field Trip

Statement

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

Total: 3

Justification for
new course:

Requested by Department Chair

Semester(s)
previously taught
none

Co-Listed
Courses:

Course Reviewer

Comments

kleb6b (03/25/14 11:13 am): Rollback: To clarify prerequisite

kleb6b (03/26/14 10:40 am): Rollback: Fix Prereq

Key: 4067

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 04/24/14 7:34 am

Viewing: **PET ENG 5001.TBD : Advanced**

Mechanical Earth Modeling

File: 4086

Last edit: 04/24/14 7:43 am

Changes proposed by: patty

Requested	Fall 2014
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Petroleum Engineering (PET ENG)
Course Number	5001
Topic ID	TBD
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. Registrar
8. Peoplesoft

Approval Path

1. 04/24/14 7:36 am
reflori: Approved for RGEOENG Chair
2. 04/24/14 7:43 am
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:07 am
sraper: Approved for Engineering DSCC Chair

Advanced Mechanical Earth Modeling

Abbreviated Adv Mech Earth Mod

Course Title

Experimental

Course Title

Instructors

A Eckert

Catalog

Description

This course introduces advanced concepts important to generate 2D/3D Mechanical Earth Models. The course utilizes finite element models and focuses on simulating realistic in situ stress magnitudes. Course topics include pre-stressing, influence of topography, pore pressure and temperature fields, rheological laws, and coupled hydro-mechanical simulations

Experimental

Course

Description

Prerequisites

Petr Eng 4710 & Petr Eng 4720

Field Trip

Statement

n/a

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Department requests.

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4086

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 04/23/14 5:05 pm

Viewing: **RUSSIAN 3001.TBD : Scientific Russian**

File: 4084

Last edit: 05/21/14 10:11 am

Changes proposed by: ivliyeva

Requested	Spring 2015
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Russian (RUSSIAN)
Course Number	3001
Topic ID	TBD
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. Registrar
8. Peoplesoft

Approval Path

1. 04/23/14 5:13 pm
lance: Approved for RPHILOSO Chair
2. 04/24/14 7:44 am
kleb6b: Approved for CCC Secretary
3. 04/24/14 9:15 am
ivliyeva:
Approved for Arts & Humanities DSCC Chair
4. 04/30/14 2:32 pm

kleb6b: Approved
for Pending CCC
Agenda post

Scientific Russian

Abbreviated Course Title	Scientific Russian
Experimental Course Title	Scientific Russian
Instructors	Irina Ivliyeva

Catalog

Description

The course focuses on acquisition of basic Russian scientific vocabulary for STEM disciplines and development of practical skills in translating and interpreting intermediate Russian scientific texts. The course will be developed for both blended and online formats.

Experimental

Course

Description

The course focuses on acquisition of basic Russian scientific vocabulary for STEM disciplines and development of practical skills in translating and interpreting intermediate Russian scientific texts.

Prerequisites

RUSSIAN 1102.

Field Trip

Statement

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

Justification for
new course:

Students's requests to develop a new courses focusing on scientific texts

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4084

Course Inventory Change Request

Date Submitted: 04/24/14 5:00 pm

Viewing: **BIO SCI 2213 : Cell Biology**

File: 964.1

Last edit: 05/01/14 1:21 pm

Changes proposed by: lahne

Programs

referencing this
course

[BIO SC-BA: Biological Sciences BA](#)

[BIO SC-BS: Biological Sciences BS](#)

[BIO SC-MI: Biological Sciences Minor](#)

[BIOINFO-MI: Bioinformatics Minor](#)

[CH ENG-BS: Chemical Engineering BS](#)

[CHEM-BA: Chemistry BA](#)

[CHEM-BS: Chemistry BS](#)

[CP ENG-BS: Computer Engineering BS](#)

[EL ENG-BS: Electrical Engineering BS](#)

[PRE-MED-MI: Pre-Medicine Minor](#)

Other Courses

referencing this
course

In The Catalog Description:

[BIO SCI 2219 : Cell Biology Laboratory](#)

In The Prerequisites:

[BIO SCI 2219 : Cell Biology Laboratory](#)

[BIO SCI 3333 : Human Anatomy and Physiology I](#)

[BIO SCI 4323 : Molecular Genetics](#)

[BIO SCI 4353 : Cancer Cell Biology](#)

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. Peoplesoft

Approval Path

1. 04/25/14 9:16 am
aronstam:

Approved for
RBIOLSCI Chair

2. 04/25/14 9:37 am
kleb6b: Approved

for CCC Secretary

3. 05/01/14 1:22 pm
tauritzd:

Approved for

Sciences DSCC
Chair

- [BIO SCI 4383 : Toxicology](#)
- [BIO SCI 4393 : Immunology](#)
- [BIO SCI 4493 : General Virology](#)
- [BIO SCI 5313 : Pathogenic Microbiology](#)
- [BIO SCI 5353 : Developmental Biology](#)
- [BIO SCI 5433 : Neurobiology](#)
- [BIO SCI 5533 : Pharmacology](#)
- [BIO SCI 6353 : Advanced Cancer Cell Biology](#)
- [BIO SCI 6383 : Advanced Toxicology](#)
- [BIO SCI 6413 : Molecular Cell Biology](#)
- [BIO SCI 6523 : Biomolecules](#)

Requested	Fall 2014
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	2213
Title	Cell Biology
Abbreviated Course Title	Cell Biology

Catalog

Description

The structure and function of eukaryotic and prokaryotic cells. Emphasis on macromolecules, organelles, metabolic pathways, bioenergetics, cell signaling, the cell cycle, and **gene expression**. ~~information processing.~~

Prerequisites

Preceded or accompanied by Chem 1320.

Field Trip

Statement

Credit Hours LEC: 3 LAB: ~~0~~1 IND: 0 RSD: 0

Total: 3

Required for
Majors

No

Elective for
Majors

No

Justification for
change:
department request

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 964

Course Inventory Change Request

Date Submitted: 04/24/14 5:04 pm

Viewing: **BIO SCI 3333 : Human Anatomy and Physiology I**

File: 1363.1

Last edit: 05/01/14 1:26 pm

Changes proposed by: lahne

Programs

referencing this course

[BIO SC-BA: Biological Sciences BA](#)

Other Courses

referencing this course

In The Catalog Description:

[BIO SCI 3339 : Human Anatomy Physiology I Lab](#)

In The Prerequisites:

[BIO SCI 3339 : Human Anatomy Physiology I Lab](#)

[BIO SCI 3343 : Human Anatomy and Physiology II](#)

[BIO SCI 3483 : Biomedical Problems](#)

Requested	Spring 2015 Fall 2014
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	3333

In Workflow

- RBIOLSCI Chair**
- CCC Secretary**
- Sciences DSCC Chair**
- Pending CCC Agenda post**
- CCC Meeting Agenda
- Campus Curricula Committee Chair
- FS Meeting Agenda
- Faculty Senate Chair
- Registrar
- Peoplesoft

Approval Path

- 04/25/14 9:16 am aronstam: Approved for RBIOLSCI Chair
- 04/25/14 9:37 am kleb6b: Approved for CCC Secretary
- 05/01/14 1:27 pm tauritzd: Approved for

Title

Sciences DSCC
Chair

Human Anatomy and Physiology I

Abbreviated Human Anatomy Physiology I

Course Title

Catalog

Description

First semester of a two-semester sequence dealing with the structure and function of human organ systems. Includes the study of cells, tissues, and the integumentary, skeletal, muscular and nervous systems.

Prerequisites

Bio Sci 1113 or Bio Sci **1213**; ~~1213~~ or Bio Sci 2213.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for
change:

department request

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1363

Course Inventory Change Request

Date Submitted: 04/24/14 5:06 pm

Viewing: **BIO SCI 3343 : Human Anatomy and Physiology II**

File: 1939.1

Last edit: 05/01/14 1:28 pm

Changes proposed by: lahne

Programs
referencing this
course

[BIO SC-BA: Biological Sciences BA](#)

Other Courses
referencing this
course

In The Catalog Description:

[BIO SCI 3349 : Human Anatomy and Physiology II Laboratory](#)

In The Prerequisites:

[BIO SCI 3349 : Human Anatomy and Physiology II Laboratory](#)

Requested Effective Change Date	Spring 2015 Fall 2014
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	3343
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. Peoplesoft

Approval Path

1. 04/25/14 9:15 am aronstam: Approved for RBIOLSCI Chair
2. 04/25/14 9:37 am kleb6b: Approved for CCC Secretary
3. 05/01/14 2:54 pm tauritzd: Approved for

Sciences DSCC
Chair

Human Anatomy and Physiology II

Abbreviated Human Anatomy Physiology II

Course Title

Catalog

Description

Second semester of a two-semester sequence of the study of the structure and function of human organ systems, including the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems.

Prerequisites

Bio Sci **1113** or **Bio Sci 1213**; **Bio Sci 2213**. ~~3333~~.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for
change:

department request

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1939

Course Inventory Change Request

Date Submitted: 04/24/14 5:08 pm

Viewing: **BIO SCI 4010 : Seminar**

File: 2633.1

Last edit: 05/01/14 1:20 pm

Changes proposed by: lahne

Programs

referencing this
course

[BIO SC-BA: Biological Sciences BA](#)

[BIO SC-BS: Biological Sciences BS](#)

Requested

Spring 2015 ~~Fall 2014~~

Effective Change

Date

Department

Biological Sciences

Discipline

Biological Sciences (BIO SCI)

Course Number

4010

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. Peoplesoft

Approval Path

1. 04/25/14 9:07 am
aronstam:

Approved for
RBIOLSCI Chair

2. 04/25/14 9:37 am
kleb6b: Approved
for CCC Secretary

3. 05/01/14 1:20 pm
tauritzd:

Approved for

Sciences DSCC
Chair

Seminar

Abbreviated Seminar
Course Title

Catalog
Description

Students will work in groups to propose, research, develop, complete, and present service-learning projects that are related to the biological sciences. ~~Presentation of a scientific paper concerned with current topics in biological sciences.~~

Prerequisites

Senior standing.

Field Trip
Statement

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

Required for No
Majors

Elective for No
Majors

Justification for
change:
department request

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2633

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/27/14 4:04 pm

Viewing: **BIO SCI 4666 : Nanobiotechnology**

File: 4056

Last edit: 05/21/14 10:15 am

Changes proposed by: huangy

Requested Fall 2014

Effective Change

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 4666

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. Peoplesoft

Approval Path

1. 02/27/14 4:48 pm
aronstam:
Approved for
RBIOLSCI Chair
2. 02/28/14 11:01
am
kleb6b: Approved
for CCC Secretary
3. 03/22/14 12:58
pm

- tauritzd:
Approved for
Sciences DSCC
Chair
- 4. 04/30/14 11:22
am
kleb6b: Approved
for Pending CCC
Agenda post
- 5. 05/21/14 10:15
am
kleb6b: Approved
for CCC Meeting
Agenda

Nanobiotechnology

Abbreviated Course Title Nanobiotechnology

Catalog

Description

Nanotechnology has emerged to change human economy and society in many aspects. Applications of nanotechnology in life science is termed nanobiotechnology. This course describes recent development of nanobiotechnology in fundamental biological research as well as biomedical studies.

Prerequisites

BIO SCI 2213 or BIO SCI 2223.

Field Trip

Statement

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

Required for Majors No

Elective for No
Majors

Justification for
new course:

This course has been taught twice. So this is the course change form request.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4056

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/27/14 4:22 pm

Viewing: **BIO SCI 6666 : Advanced**

Nanotechnology in Biomedicine

File: 4057

Last edit: 04/16/14 10:46 am

Changes proposed by: huangy

Requested	Fall 2014
Effective Change Date	
Department	Biological Sciences
Discipline	Biological Sciences (BIO SCI)
Course Number	6666
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. Peoplesoft

Approval Path

1. 02/27/14 4:48 pm
aronstam:
Approved for
RBIOLSCI Chair
2. 02/28/14 11:01
am
kleb6b: Approved
for CCC Secretary
3. 03/22/14 12:58
pm

tauritzd:
Approved for
Sciences DSCC
Chair

Advanced Nanotechnology in Biomedicine

Abbreviated Course Title Advanced Nanobiotech

Catalog

Description

Applications of nanotechnology in life science is termed nanobiotechnology. This course describes recent development of nanotechnology in basic biological research as well as biomedical applications. In addition to attending regular lectures, graduate students will be assigned to an independent research project and present the information in the class.

Prerequisites

Two biomedical science related courses at college level and graduate standing

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 2

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

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

Justification for

new course:

This course has been taught twice. So this is the course change form request.

Semesters

previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4057

Course Inventory Change Request

Date Submitted: 05/03/14 3:03 pm

Viewing: **BUS 4150 : Customer Focus and Satisfaction**

File: 2317.8

Last approved: 05/03/14 4:23 am

Last edit: 05/03/14 3:03 pm

Changes proposed by: lahne

Programs
referencing this
course

[ENTPRNS-MI: Entrepreneurship Minor](#)

[MGMT-MI: Management Minor](#)

Other Courses
referencing this
course

In The Prerequisites:

[BUS 6150.TBD : Advanced Customer Focus and Satisfaction](#)

[MKT 4150 : Customer Focus and Satisfaction](#)

[MKT 5150 : Advanced Customer Focus and Satisfaction](#)

Requested	Fall 2014
Effective Change Date	
Department	Business and Information Technology
Discipline	Business (BUS)
Course Number	4150

In Workflow

1. **RBUSADMN 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. Peoplesoft

Approval Path

1. 05/03/14 8:36 pm
siauk: Approved for RBUSADMN Chair
2. 05/05/14 7:54 am
kleb6b: Approved for CCC Secretary
3. 05/05/14 7:59 am
barryf: Approved

Title

for Social
Sciences DSCC
Chair

4. 05/05/14 11:10
am

lahne: Approved
for Pending CCC
Agenda post

History

1. May 3, 2014 by
barryf (2317.1)

Customer Focus and Satisfaction

Abbreviated Course Title	Customer Focus & Satisfaction
-----------------------------	----------------------------------

Catalog

Description

Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. A semester long HoQ project will be done.

Prerequisites

Mkt MKT-3110 or **Mkt MKT-3105** or Eng Mgt 3510. ~~BUS 4150 and BUS 5150 cannot both be taken for credit.~~

Field Trip

Statement

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

Total: 3

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

Elective for No
Majors

Justification for
change:

Course renumbering initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

MKT 4150 - Customer Focus and Satisfaction

Course Reviewer

Comments

Key: 2317

Course Inventory Change Request

Date Submitted: 04/30/14 3:26 pm

Viewing: **BUS 4675 : International Business**

File: 1272.3

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

Last edit: 04/30/14 3:26 pm

Changes proposed by: lahne

Programs

referencing this
course

[BUS&MS-BS: Business and Mgmt Systems BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[BUS 6675.TBD : Advanced International Business](#)

Requested Fall 2014

Effective Change
Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number 4675

Title

In Workflow

1. **RBUSADMN
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. Peoplesoft

Approval Path

1. 04/30/14 10:14
pm
siauk: Approved
for RBUSADMN
Chair
2. 05/01/14 1:16 pm
kleb6b: Approved
for CCC Secretary
3. 05/01/14 1:19 pm

barryf: Approved
for Social
Sciences DSCC
Chair

History

1. Apr 28, 2014 by
lahne (1272.1)

International Business

Abbreviated International Business
Course Title

Catalog

Description

This survey course will deal with business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy.

Prerequisites

MKT 3110 or MKT 5105 or Eng Mgt 3510. ~~BUS 4675 and BUS 5675 cannot both be taken for credit.~~

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for No
Majors

Justification for
change:

Course Renumbering Initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1272

Course Inventory Change Request

Date Submitted: 04/04/14 5:54 pm

Viewing: **BUS 5360** ~~3360~~: **Business Operations**

File: 507.1

Last edit: 04/04/14 5:54 pm

Changes proposed by: barryf

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

Effective Change

Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number **5360** ~~3360~~

Title

In Workflow

1. **RBUSADMN
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. Peoplesoft

Approval Path

1. 04/17/14 11:43
am
siauk: Approved
for RBUSADMN
Chair
2. 04/17/14 2:47 pm
kleb6b: Approved
for CCC Secretary
3. 04/23/14 8:45 am

barryf: Approved
for Social
Sciences DSCC
Chair

Business Operations

Abbreviated Course Title Business Operations

Catalog

Description

This course examines the concepts, processes, and institutions that are fundamental to an understanding of business operations within organizations. Emphasis is on the management and organization of manufacturing and service operations and the application of quantitative methods to the solution of strategic, tactical and operational problems.

Prerequisites

Math 1208 or Math 1212 or Math 1214; any Statistics course; Bus 1210 or Eng Mgt 2211.

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:

Change from 3360 to 5360.

Course has been upgraded and is being taught at the senior/graduate level.

The course is part of several Graduate Certificates.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 507

Course Inventory Change Request

Date Submitted: 05/03/14 3:28 pm

Viewing: **BUS 6150.TBD ~~5150~~: Advanced**

Customer Focus and Satisfaction

File: 2318.5

Last approved: 05/03/14 4:23 am

Last edit: 05/03/14 3:28 pm

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number **6150-~~5150~~**

Title

In Workflow

1. **RBUSADMN
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. Peoplesoft

Approval Path

1. 05/03/14 8:38 pm
siauk: Approved
for RBUSADMN
Chair
2. 05/05/14 7:54 am
kleb6b: Approved
for CCC Secretary
3. 05/05/14 7:59 am
barryf: Approved

for Social
Sciences DSCC
Chair

4. 05/05/14 11:10
am

lahne: Approved
for Pending CCC
Agenda post

History

1. May 3, 2014 by
barryf (2318.1)

Advanced Customer Focus and Satisfaction

Abbreviated Course Title Advanced Customer Focus

Catalog

Description

Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. Individual focused research is included.

Prerequisites

Mkt MKT-3110 or **Mkt MKT-3105** or Eng Mgt 3510. ~~BUS-4150 and BUS-5150 cannot both be taken for credit.~~

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No
Majors

Justification for
change:

Course renumbering initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

~~MKT 5150 - Advanced Customer Focus and Satisfaction~~

MKT 6150- Course Not Found

Course Reviewer

Comments

Key: 2318

Course Inventory Change Request

Date Submitted: 04/30/14 3:27 pm

Viewing: **BUS 6675.TBD ~~5675~~: Advanced**

International Business

File: 2146.3

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

Last edit: 04/30/14 3:27 pm

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Business (BUS)

Course Number **6675-~~5675~~**

Title

In Workflow

1. **RBUSADMN
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. Peoplesoft

Approval Path

1. 04/30/14 10:14
pm
siauk: Approved
for RBUSADMN
Chair
2. 05/01/14 1:16 pm
kleb6b: Approved
for CCC Secretary
3. 05/01/14 1:20 pm

barryf: Approved
for Social
Sciences DSCC
Chair

History

1. Apr 28, 2014 by
barryf (2146.1)

Advanced International Business

Abbreviated Adv International Business
Course Title

Catalog

Description

Business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy. Research project required.

Prerequisites

MKT 3110 or MKT 5105 or Eng Mgt 3510. ~~BUS 4675 and BUS 5675 cannot both be taken for credit.~~

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for No
Majors

Justification for
change:

Course Renumbering Initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2146

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/08/14 1:50 pm

Viewing: **CIV ENG 5515.TBD : Advanced Traffic Signal Operations**

File: 4070

Last edit: 05/02/14 1:21 pm

Changes proposed by: dbenenat

Requested	Fall 2014
Effective Change Date	
Department	Civil, Architectural, and Environmental Engineering
Discipline	Civil Engineering (CIV ENG)
Course Number	5515
Title	

In Workflow

1. **RCIVILEN Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CCC Faculty Senate
8. Faculty Senate Chair
9. Registrar
10. Peoplesoft

Approval Path

1. 04/10/14 12:25 pm
burken: Approved for RCIVILEN Chair
2. 04/24/14 3:25 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:31 am
sraper: Approved

for Engineering
DSCC Chair

4. 04/30/14 11:22
am

kleb6b: Approved
for Pending CCC
Agenda post

Advanced Traffic Signal Operations

Abbreviated Adv Traffic Signal Ops
Course Title

Catalog

Description

This course will discuss the role and function of traffic signal components: the signal controller, conflict monitor, vehicle detectors, etc. The course also covers the layout of traffic signal hardware at an intersection and will discuss the phasing/timing of traffic signals in detail.

Prerequisites

Civil 5513

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for

new course:

This course was taught both Fall 2009 and Fall 2012 with positive results. In addition,

the pre-req - Civil 353 (Traffic Engineering) had much interest and a good enrollment in Fall 2013.

Semesters

previously

offered as an

experimental

course

Fall 2009 and Fall 2012

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (04/24/14 3:25 pm): The department needs to provide a four digit course number. Still waiting on reply from Dr. Burken.

sraper (04/30/14 9:31 am): Form is approved, but uncertainty if this should be a 4000 or 5000 level course.

Key: 4070

Course Inventory Change Request

Date Submitted: 10/09/13 3:36 pm

Viewing: **CIV ENG 6714 414: Measurement Of Soil Properties**

File: 370.1

Last edit: 05/21/14 10:53 am

Changes proposed by: brackenl

Requested **Fall 2014** ~~1-Jan-00~~

Effective Change

Date

Department Civil, Architectural, and Environmental Engineering

Discipline Civil Engineering (CIV ENG)

Course Number **6714 414**

Title

In Workflow

1. **RCIVILEN Chair**
2. **CCC Secretary**
3. **Engineering DSCC Chair**
4. **Pending CCC Agenda post**
5. **CCC Meeting Agenda**
6. Campus Curricula Committee Chair
7. CCC Faculty Senate
8. Faculty Senate Chair
9. Registrar
10. Peoplesoft

Approval Path

1. 03/13/14 9:25 am
burken: Approved for RCIVILEN Chair
2. 03/13/14 1:56 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:32 am
sraper: Approved for Engineering

DSCC Chair

4. 04/30/14 11:23

am

kleb6b: Approved

for Pending CCC

Agenda post

Measurement Of Soil Properties

Abbreviated Meas Of Soil Properties
Course Title

Catalog

Description

Laboratory determination of soil properties with emphasis on practical. Applications of test data. Tests include classification, atterberg limits, consolidation, compaction, triaxial shear tests with pore pressure measurement, and direct shear tests. Preparation of technical reports.

Prerequisites

Preceded ~~or accompanied~~ by **CIV ENG 3715**. ~~Civ-Eng-315~~.

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 3

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

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

Justification for
change:

CE 5715 is not necessary for this class. Prerequisite CE 3715.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 370

Course Inventory Change Request

Date Submitted: 04/23/14 10:44 am

Viewing: **COMP ENG 3110 ~~3510~~: Computer**

Organization and Design

File: 475.1

Last edit: 05/21/14 10:56 am

Changes proposed by: stanleyj

Requested Fall 2014

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number **3110-~~3510~~**

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. Peoplesoft

Approval Path

1. 04/23/14 1:29 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:50 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:28 am
sraper: Approved for Engineering DSCC Chair

4. 04/30/14 11:23
am
kleb6b: Approved
for Pending CCC
Agenda post

Computer Organization and Design

Abbreviated Computer Org and Design
Course Title

Catalog

Description

Introduction to basic concepts of computer organization and design: metrics for computer performance, computer arithmetic, Von **Neumann** ~~Neuman~~ architecture, instruction implementation, control unit, pipelining, memory systems hierarchy, cache memories and basic I/O controllers. ~~Should be preceded or accompanied by Comp Eng 3550.~~

Prerequisites

COMP ENG 2210; preceded or accompanied by COMP ENG 3150. ~~Comp Eng 2210.~~

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 second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng

programs.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

sraper (04/30/14 9:28 am): Neuman was spelled wrong.

Key: 475

Course Inventory Change Request

Date Submitted: 04/23/14 10:46 am

Viewing: **COMP ENG 3150.TBD 3550-: Digital Systems Design**

File: 1627.1

Last edit: 04/23/14 10:46 am

Changes proposed by: stanleyj

Programs
referencing this
course

[CP ENG-MI: Computer Engineering Minor](#)

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	3150-3550
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. Peoplesoft

Approval Path

1. 04/23/14 1:30 pm kte: Approved for RELECENG Chair
2. 04/23/14 1:50 pm kleb6b: Approved for CCC Secretary
3. 04/30/14 9:27 am sraper: Approved for Engineering DSCC Chair

Digital Systems Design

Abbreviated Digital Systems Design
Course Title

Catalog

Description

Microcontroller-based digital system design methodology and techniques. Topics include basic machine organization, interface design, and C and assembly language programming for real-time embedded systems.

Prerequisites

Comp Eng 2210 and Comp Sci 1570 (or programming equivalent) each with grade of "C" or better.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1627

Course Inventory Change Request

Date Submitted: 04/23/14 10:48 am

Viewing: **COMP ENG 3151** ~~3551~~: **Digital Engineering Lab II**

File: 2329.1

Last edit: 05/22/14 10:52 am

Changes proposed by: stanleyj

Requested	Spring 2015 Fall 2014
Effective Change	
Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	3151 3551
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. Peoplesoft

Approval Path

1. 04/23/14 1:34 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:50 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am
sraper: Approved for Engineering DSCC Chair

4. 04/30/14 11:27 am
kleb6b: Approved for Pending CCC Agenda post
5. 05/21/14 10:57 am
kleb6b: Approved for CCC Meeting Agenda

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.~~

Prerequisites

~~Preceded or accompanied by~~ Comp Eng **2210**, **Comp 3550**, ~~Elec-Eng 2211, 2200~~ and **Comp Sci 1570 (or programming equivalent) each with grade of "C" or better.** ~~Elec Eng 2201.~~ **Preceded or accompanied by Comp Eng 3550.**

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:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2329

Course Inventory Change Request

Date Submitted: 04/23/14 10:50 am

Viewing: **COMP ENG 4151.TBD 4551: Digital Systems Design Laboratory**

File: 71.1

Last edit: 04/23/14 10:50 am

Changes proposed by: stanleyj

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	4151-4551
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. Peoplesoft

Approval Path

1. 04/23/14 1:36 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:51 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am
srafer: Approved for Engineering DSCC Chair

Digital Systems Design Laboratory

Abbreviated Digital Sys Design Lab

Course Title

Catalog

Description

Experimental studies of problems with high speed digital signals in circuits. Student designs, wires, tests, and programs a microprocessor based single board computer project. A FPGA design is programmed and tested.

Prerequisites

Comp Eng **3150** ~~3550~~ or **5110**. ~~5510~~.

Field Trip

Statement

Credit Hours

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 71

Course Inventory Change Request

Date Submitted: 04/23/14 10:51 am

Viewing: **COMP ENG 4160.TBD 4560:**

Embedded Processor System Design

File: 764.1

Last edit: 04/23/14 10:51 am

Changes proposed by: stanleyj

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	4160-4560
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. Peoplesoft

Approval Path

1. 04/23/14 1:37 pm kte: Approved for RELECENG Chair
2. 04/23/14 1:51 pm kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am sraper: Approved for Engineering DSCC Chair

Embedded Processor System Design

Abbreviated Embedded Proc Sys Design
Course Title

Catalog

Description

Development of hardware and software for embedded systems, including real-time operating systems, advanced programming, communication schemes, hardware peripherals and sensors, control methodologies, printed-circuit board design, interrupts, microcontrollers, and hardware-software co-design. One or more team design projects.

Prerequisites

Comp Eng **3150** ~~3550~~ or equivalent and 80x51 processor experience.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

change:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 764

Course Inventory Change Request

Date Submitted: 04/23/14 10:40 am

Viewing: **COMP ENG 5120 5520-: Digital**

Computer Design

File: 1081.1

Last edit: 04/23/14 10:44 am

Changes proposed by: lahne

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	5120-5520
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. Peoplesoft

Approval Path

1. 04/23/14 1:37 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:51 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am
srafer: Approved for Engineering DSCC Chair

Digital Computer Design

Abbreviated Digital Computer Design
Course Title

Catalog

Description

Organization of modern digital computers; design of processors, memory systems and I/O units, hardware-software tradeoffs in different levels of computer system design.

Prerequisites

Comp Eng **3150** ~~3550~~ and Comp Eng **3151**. ~~3551~~.

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 second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1081

Course Inventory Change Request

Date Submitted: 04/23/14 10:46 am

Viewing: **COMP ENG 5130.TBD 5530-: Advanced
Microcomputer System Design**

File: 1770.1

Last edit: 04/23/14 10:46 am

Changes proposed by: lahne

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	5130-5530
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. Peoplesoft

Approval Path

1. 04/23/14 1:38 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:51 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am
srafer: Approved for Engineering DSCC Chair

Advanced Microcomputer System Design

Abbreviated Adv Microcomp Sys Dsgn
Course Title

Catalog

Description

The design of digital systems based on advanced microprocessors. Introduction to microcomputer logic development systems. I/O interfaces. Assembly and high level language tradeoffs. Hardware and software laboratory projects required.

Prerequisites

Comp Eng **5110**. ~~5510~~.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

change:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1770

Course Inventory Change Request

Date Submitted: 04/23/14 10:47 am

Viewing: **COMP ENG 5170.TBD 5570:**

Real-Time Systems

File: 716.1

Last edit: 04/23/14 10:47 am

Changes proposed by: lahne

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	5170-5570
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. Peoplesoft

Approval Path

1. 04/23/14 1:39 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:51 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am
srafer: Approved for Engineering DSCC Chair

Real-Time Systems

Abbreviated Real-Time Systems
Course Title

Catalog

Description

Introduction to real-time (R-T) systems and R-T kernels, also known as R-T operating systems, with an emphasis on scheduling algorithms. The course also includes specification, analysis, design and validation techniques for R-T systems. Course includes a team project to design an appropriate R-T operating system.

Prerequisites

Comp Eng **3150** ~~3550~~ or Comp Sci 3800.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

change:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 716

Course Inventory Change Request

Date Submitted: 04/23/14 10:49 am

Viewing: **COMP ENG 6120.TBD 6520: Advanced
Computer Architecture II**

File: 550.1

Last edit: 04/23/14 10:49 am

Changes proposed by: lahne

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	6120-6520
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. Peoplesoft

Approval Path

1. 04/23/14 1:39 pm
kte: Approved for RELECENG Chair
2. 04/23/14 1:51 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am
sraper: Approved for Engineering DSCC Chair

Advanced Computer Architecture II

Abbreviated Course Title Adv Computer Architec II

Catalog

Description

Continuation of Computer Engineering **6110. 6510.**

Prerequisites

Comp Eng **6110. 6510.**

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for
change:

The second digit of this 4 digit course number needs to be updated to match up the courses offered in the Emphasis Areas between the Comp Eng and Elec Eng programs.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 550

Course Inventory Change Request

Date Submitted: 02/11/14 12:15 pm

Viewing: **COMP ENG 6220 409**: Design

Automation of VLSI Systems

File: 2051.1

Last edit: 05/21/14 10:58 am

Changes proposed by: stanleyj

Requested	Fall 2014 13-Aug-12
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Computer Engineering (COMP ENG)
Course Number	6220 409
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. Peoplesoft

Approval Path

1. 02/11/14 1:26 pm
kte: Approved for RELECENG Chair
2. 02/11/14 1:40 pm
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:11 am
sraper: Approved for Engineering

DSCC Chair

4. 04/30/14 11:25

am

kleb6b: Approved

for Pending CCC

Agenda post

Design Automation of VLSI Systems

Abbreviated	Design Automation of VLSI
Course Title	Syst

Catalog

Description

A state-of-the-art survey of advanced VLSI design techniques, including ultra-low-voltage designs, asynchronous computing, microfluidic chips, three-dimensional integration and other More-than-Moore technologies. ~~This course covers fundamentals in VLSI design automation. Topics include logic synthesis, design planning and optimization, placement and routing, parasitic extraction, circuit simulation, timing analysis, design verification and testing.~~

Prerequisites

COMP ENG 5210. ~~Comp Eng 311.~~

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 instructors who teach this course have updated the topics covered related to up-to-date VLSI design techniques. The catalog description reflects the update in the course content.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2051

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/07/14 4:53 pm

Viewing: **COMP SCI 3601 : Digital Forensics**

File: 4069

Last edit: 05/01/14 1:15 pm

Changes proposed by: tauritzd

Requested	Spring 2015
Effective Change Date	
Department	Computer Science
Discipline	Computer Science (COMP SCI)
Course Number	3601
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. Peoplesoft

Approval Path

1. 04/07/14 5:54 pm
sdas: Approved for RCOMPSCI Chair
2. 04/08/14 7:41 am
kleb6b: Approved for CCC Secretary
3. 05/01/14 1:15 pm
tauritzd:
Approved for

Digital Forensics

Abbreviated Digital Forensics
Course Title

Catalog

Description

Planning/managing incidents and response related to digital forensics; identifying, collecting, and preserving digital evidence; live/dead approaches covering systems as a whole emphasizing file system forensics; analysis and interpretation of artifacts culminating in a final project consisting of a collection, analysis, and report; legal and ethical issues.

Prerequisites

A "C" or better grade in both Comp Sci 3600 and Comp Sci 3800.

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for Yes
Majors

Justification for
new course:

This course has successfully been taught in SP2011, SP2012, and SP2013 as Comp Sci 201.

Semesters

previously
offered as an

experimental

course

SP2011, SP2012, SP2013

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4069

Course Inventory Change Request

New Course Proposal

Date Submitted: 03/07/14 12:46 pm

Viewing: **COMP SCI 6304 : Cloud Computing
and Big Data Management**

File: 4059

Last edit: 03/07/14 12:46 pm

Changes proposed by: tauritzd

Requested	Spring 2015
Effective Change Date	
Department	Computer Science
Discipline	Computer Science (COMP SCI)
Course Number	6304
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. Peoplesoft

Approval Path

1. 03/07/14 1:43 pm
sdas: Approved
for RCOMPSCI
Chair
2. 03/11/14 10:13
am
kleb6b: Approved
for CCC Secretary
3. 03/22/14 1:01 pm
tauritzd:

Approved for
Sciences DSCC
Chair

Cloud Computing and Big Data Management

Abbreviated Course Title Cloud Computing

Catalog

Description

Covers facets of cloud computing and big data management, including the study of the architecture of the cloud computing model with respect to virtualization, multi-tenancy, privacy, security, cloud data management and indexing, scheduling and cost analysis; it also includes programming models such as Hadoop and MapReduce, crowdsourcing, and data provenance.

Prerequisites

A "C" or better grade in both Comp Sci 5800 and either Comp Sci 5300 or Comp Sci 5001 - Introduction to Data Mining.

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:

Offered two times as experimental course Comp Sci 401 - Cloud Computing.

Semesters previously

offered as an
experimental
course

FS2011 and FS2013.

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4059

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/28/14 12:01 am

Viewing: **ELEC ENG 3311 : Circuits and Systems Laboratory**

File: 4050

Last edit: 04/16/14 10:47 am

Changes proposed by: watkins

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	3311
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. Peoplesoft

Approval Path

1. 02/28/14 9:45 am
kte: Approved for RELECENG Chair
2. 02/28/14 11:16 am
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:11 am
sraper: Approved

for Engineering
DSCC Chair

Circuits and Systems Laboratory

Abbreviated Circuits & Systems Lab

Course Title

Catalog

Description

Software tools for circuits and systems. Topics include applications of MATLAB and LabView.

Prerequisites

Elec Eng 2120 and Elec Eng 2101 with a grade of "C" or better; CompSci 1570; passing the Elec Eng Advancement Exam II.

Field Trip

Statement

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

Total: 1

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

Majors

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

Majors

Justification for

new course:

Curriculum revision approved by ECE faculty 12/12/2013
replacement for EE 216 Laboratory

Semesters

previously

offered as an

experimental

course

Part of Curriculum Revision

Co-Listed

Courses:

Course Reviewer

Comments

lahne (02/11/14 9:58 am): Rollback: .

kleb6b (02/17/14 3:13 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kte (02/17/14 3:17 pm): Rollback: Change course numbers to new 4-digit numbers.

Key: 4050

Course Inventory Change Request

Date Submitted: 02/28/14 12:04 am

Viewing: **ELEC ENG 3320 ~~231~~: Control Systems**

File: 554.1

Last edit: 05/21/14 11:00 am

Changes proposed by: watkins

Programs

referencing this
course

[AUTOENG-MI: Minor in Automation Engineering](#)

[CP ENG-BS: Computer Engineering BS](#)

[EL ENG-BS: Electrical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[CHEM ENG 5190 : Plantwide Process Control](#)

[ELEC ENG 4096 : Electrical Engineering Senior Project I](#)

[ELEC ENG 5300 : Digital Control](#)

[ELEC ENG 5350 : Plantwide Process Control](#)

[ELEC ENG 5360 : System Simulation And Identification](#)

[ELEC ENG 5380 : Autonomous Mobile Robots](#)

[ELEC ENG 5500 : Electric Drive Systems](#)

[ELEC ENG 6300 : Linear Control Systems](#)

Requested **Spring 2015 ~~13-Aug-12~~**

Effective Change

Date

Department Electrical and Computer Engineering

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. Peoplesoft

Approval Path

1. 02/28/14 9:43 am
kte: Approved for
RELECENG Chair
2. 02/28/14 11:16
am
kleb6b: Approved
for CCC Secretary
3. 03/27/14 10:11
am
srafer: Approved

Discipline Electrical Engineering (ELEC ENG)

Course Number **3320-231**

Title

for Engineering

DSCC Chair

4. 04/30/14 11:33

am

kleb6b: Approved

for Pending CCC

Agenda post

Control Systems

Abbreviated Control Systems

Course Title

Catalog

Description

Laplace transforms, formulation ~~Formulation~~ of the control problem, system equations and models, **time frequency, time,** and **frequency domain analysis, stability, state-space analysis** and design of linear control systems.

Prerequisites

ELEC ENG 2120 ~~Elec Eng 153~~ and **MATH 3304** ~~Math 204~~ each with a grade of "C" or better; passing the **ELEC ENG** ~~Elec Eng~~ Advancement Exam II.

Accompanied by ELEC ENG 3321.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for
change:

Curriculum revision approved by ECE Faculty 12/12/2013.

New co-requisite laboratory EE 232

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (02/17/14 3:13 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kte (02/17/14 3:17 pm): Rollback: Change course numbers to new 4-digit numbers.

Key: 554

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/28/14 12:02 am

Viewing: **ELEC ENG 3321 : Control Systems**

Laboratory

File: 4049

Last edit: 04/16/14 10:47 am

Changes proposed by: watkins

Requested Fall 2014

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 3321

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. Peoplesoft

Approval Path

1. 02/28/14 9:45 am
kte: Approved for
RELECENG Chair
2. 02/28/14 11:16
am
kleb6b: Approved
for CCC Secretary
3. 03/27/14 10:11
am
sraper: Approved

for Engineering
DSCC Chair

Control Systems Laboratory

Abbreviated Control Systems Lab

Course Title

Catalog

Description

Software tools for control systems analysis.

Prerequisites

Elec Eng 2120 and Math 3304 with a grade of "C" or better; passing the Elec Eng Advancement Exam II.

Preceded or accompanied by Elec Eng 3320

Field Trip

Statement

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

Total: 1

Required for	Yes
--------------	-----

Majors

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

Majors

Justification for

new course:

Curriculum Revision approved by ECE faculty 12/12/2013

co-requisite with EE 231

Semesters

previously

offered as an

experimental

course

Part of EE BS Degree REvision

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (02/17/14 3:13 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kte (02/17/14 3:17 pm): Rollback: Change course numbers to new 4-digit numbers.

Key: 4049

Course Inventory Change Request

Date Submitted: 02/11/14 12:20 am

Viewing: **ELEC ENG 3410.TBD 215: Digital
Signal Processing** ~~Discrete Linear Systems~~

File: 2074.1

Last edit: 05/02/14 10:26 am

Changes proposed by: watkins

Requested	Fall 2014 12-Aug-13
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	3410 215
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. Peoplesoft

Approval Path

1. 02/11/14 9:42 am
kte: Approved for RELECENG Chair
2. 02/11/14 9:55 am
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:11 am
srafer: Approved for Engineering

DSCC Chair

4. 04/30/14 11:32

am

kleb6b: Approved

for Pending CCC

Agenda post

Digital Signal Processing ~~Discrete Linear Systems~~Abbreviated **DSP** ~~Discrete Linear Systems~~

Course Title

Catalog

Description

Analysis methods for discrete-time signals and systems in the time and frequency-domains including signal models and Fourier techniques. Continuous-time concepts are included as introductory material.

Prerequisites

Elec Eng **2120** ~~153~~ with a grade of "C" or better; passing the Elec Eng Advancement Exam II.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

Curriculum Revision approved by ECE faculty 12/12/2013

Co-requisite requirement with EE 216 Laboratory should be deleted.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2074

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/28/14 12:07 am

Viewing: **ELEC ENG 3430 : Digital**

Communications I

File: 4051

Last edit: 05/21/14 11:02 am

Changes proposed by: watkins

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	3430
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. Peoplesoft

Approval Path

1. 02/28/14 9:46 am
kte: Approved for RELECENG Chair
2. 02/28/14 11:16 am
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:10 am
sraper: Approved

for Engineering

DSCC Chair

4. 04/30/14 11:40

am

kleb6b: Approved

for Pending CCC

Agenda post

Digital Communications I

Abbreviated Digital Communications I
Course Title

Catalog

Description

Signals and systems for digital communications. Topics include signals and their spectra, source formatting and source coding, digital baseband data communication, and digital pass-band modulation and demodulation.

Prerequisites

ELEC ENG 2120 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; accompanied by ELEC ENG 3431.

Field Trip

Statement

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

Total: 3

Required for Yes

Majors

Elective for No

Majors

Justification for

new course:

Curriculum revision approved by ECE faculty 12/12/2013

Co-requisite with Elec Eng 3431 Laboratory

Semesters

previously

offered as an

experimental

course

Part of Curriculum Revision

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (02/17/14 3:14 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kte (02/17/14 3:17 pm): Rollback: Change course numbers to new 4-digit numbers.

Key: 4051

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/28/14 12:08 am

Viewing: **ELEC ENG 3431 : Digital**

Communication Laboratory

File: 4052

Last edit: 05/21/14 11:04 am

Changes proposed by: watkins

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	3431
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. Peoplesoft

Approval Path

1. 02/28/14 9:46 am
kte: Approved for RELECENG Chair
2. 02/28/14 11:17 am
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:10 am
sraper: Approved

for Engineering

DSCC Chair

4. 04/30/14 11:40

am

kleb6b: Approved

for Pending CCC

Agenda post

Digital Communication Laboratory

Abbreviated Digital Commun Lab
Course Title

Catalog

Description

Laboratory and software tools for the analysis of communications and for linear and non-linear signals and systems. Topics include spectral analysis, transforms, and applications.

Prerequisites

ELEC ENG 2120 and ELEC ENG 2101 with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; preceded or accompanied by ELEC ENG 3430.

Field Trip

Statement

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

Total: 1

Required for Yes

Majors

Elective for No

Majors

Justification for

new course:

Curriculum revision approved by ECE faculty 12/12/2013

Co-requisite with EE 3430.

Semesters

previously

offered as an

experimental

course

Part of BS EE Curriculum Revision

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (02/17/14 3:14 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kte (02/17/14 3:17 pm): Rollback: Change course numbers to new 4-digit numbers.

Key: 4052

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/28/14 11:04 am

Viewing: **ELEC ENG 3440 : Digital**

Communications II

File: 4053

Last edit: 04/16/14 10:48 am

Changes proposed by: watkins

Requested Fall 2014

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 3440

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. Peoplesoft

Approval Path

1. 02/28/14 3:23 pm
kte: Approved for RELECENG Chair
2. 02/28/14 3:50 pm
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:10 am
srapar: Approved for Engineering

Digital Communications II

Abbreviated Digital Commun II
Course Title

Catalog

Description

Continuation of Elec Eng 3430. Signals and their spectra with application to digital communication systems.

Prerequisites

Elec Eng 3430 with a grade of "C" or better.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

new course:

Curriculum revision approved by ECE faculty 12/12/2013

Required course in emphasis area - Communications and Signal Processing

Replacement for Elec Eng 243

Semesters

previously

offered as an

experimental

course

Part of EE BS Curriculum Revision

Co-Listed

Courses:

Course Reviewer

Comments

kleb6b (02/17/14 3:14 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kleb6b (02/28/14 10:57 am): Rollback: Resubmit with new numbers

Key: 4053

Course Inventory Change Request

Date Submitted: 04/07/14 8:33 am

Viewing: **ELEC ENG 5210 : Fourier Optics**

File: 898.1

Last edit: 05/21/14 11:06 am

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 5210

Title

In Workflow

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

Approval Path

1. 04/07/14 8:47 am
kte: Approved for RELECENG Chair
2. 04/07/14 9:10 am
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:32 am

sraper: Approved
for Engineering
DSCC Chair

4. 04/30/14 9:55 am
waddill: Approved
for RPHYSICS
Chair

5. 05/01/14 1:12 pm
tauritzd:
Approved for
Sciences DSCC
Chair

6. 05/01/14 1:14 pm
kleb6b: Approved
for Pending CCC
Agenda post

Fourier Optics

Abbreviated Course Title Fourier Optics

Catalog

Description

Applications of Fourier analysis and linear systems theory to optics. Topics include scalar diffraction theory, Fourier transforming properties of lenses, optical information processing, and imaging systems.

Prerequisites

Both ELEC ENG 3400 and 3600 or both PHYSICS 2401 and 4211. ~~Elec Eng 265 & 271 or Physic 208 & 321.~~

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:

To remove an inactive course (Elec Eng 265) from prerequisites, Elec Eng 265 & 271
or Physics 208 & 321.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

~~PHYSICS 324 - Course Not Found~~

PHYSICS 5503-- Fourier Optics

Course Reviewer

Comments

Key: 898

Course Inventory Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 04/23/14 6:06 pm

Viewing: **ENGLISH 1107 : IEP American English**

Articulation

File: 2343.1

Last edit: 04/23/14 6:06 pm

Changes proposed by: kswenson

Requested	Summer Fall 2014
Effective Change Date	
Department	English and Technical Communication
Discipline	English (ENGLISH)
Course Number	1107
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. Peoplesoft

Approval Path

1. 04/23/14 6:09 pm
kswenson:
Approved for
RENGLISH Chair
2. 04/24/14 7:42 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:14 am

ivliyeva:
Approved for Arts
& Humanities
DSCC Chair

IEP American English Articulation

Abbreviated Course Title IEP Amer Engl Articulat

Catalog

Description

Students who need specific instruction and practice in pronunciation receive heavy drills and activities to improve their articulation of American English. For non-native speakers of English. The IEP Program will assess fees for this course.

Prerequisites

By approval; accepted student to Missouri S&T.

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 0

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

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

Justification for change:

Course hasn't been offered for many years.

Semesters

previously offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2343

Course Inventory Change Request

Date Submitted: 04/22/14 12:29 pm

Viewing: **ENGLISH 2560 : ~~Practicum in Technical~~
Marketing Communication**

File: 32.1

Last edit: 05/21/14 11:07 am

Changes proposed by: kswenson

Catalog Pages
referencing this
course

[Technical Communication](#)

Programs
referencing this
course

[BUS&MS-BS: Business and Mgmt Systems BS](#)

[ECON-BS: Economics BS](#)

[IST-BS: Information Science and Tch BS](#)

[WRTG-MI: Writing Minor](#)

Other Courses
referencing this
course

In The Catalog Description:

[TCH COM 2560 : Practicum in Technical Communication](#)

Requested
Effective Change
Date

Spring 2015 ~~Fall 2014~~

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. Peoplesoft

Approval Path

1. 04/22/14 12:30
pm
kswenson:
Approved for
RENGLISH Chair
2. 04/22/14 2:51 pm
kleb6b: Approved
for CCC Secretary
3. 04/22/14 4:52 pm

Department English and Technical Communication
 Discipline English (ENGLISH)
 Course Number 2560
 Title

ivliyeva:
 Approved for Arts
 & Humanities
 DSCC Chair
 4. 04/30/14 11:43
 am
 kleb6b: Approved
 for Pending CCC
 Agenda post

~~Practicum in~~ Technical **Marketing** Communication

Abbreviated **Tech Com Marketing**
 Course Title ~~Practicum in Tech Comm~~

Catalog

Description

An introduction to technical marketing communication with an emphasis on relevant genres such as (but not limited to) the data sheet, white paper, and technical demonstration. ~~Practice in writing, editing, and designing layouts of technical publications using the personal computer for desktop publication.~~

Prerequisites

English 1600 or TCH COM 1600.

Field Trip

Statement

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

Total: 3

Required for No
 Majors

Elective for No
 Majors

Justification for

change:

The title and description should be changed to reflect the actual content of the course as it has evolved to serve its primary constituents.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

TCH COM 2560 - Practicum in Technical Communication

Course Reviewer

Comments

Key: 32

Course Inventory Change Request

Date Submitted: 04/23/14 2:58 pm

Viewing: **ENGLISH 3219 : The British English**

Novel II

File: 976.1

Last edit: 04/23/14 2:58 pm

Changes proposed by: kswenson

Programs
referencing this
course

[CRTVWR-MI: Creative Writing Minor](#)

Requested	Fall 2014
Effective Change Date	
Department	English and Technical Communication
Discipline	English (ENGLISH)
Course Number	3219

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. Peoplesoft

Approval Path

1. 04/23/14 3:22 pm
kswenson:
Approved for
RENGLISH Chair
2. 04/24/14 7:42 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:14 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

The **British** ~~English~~ Novel II

Abbreviated Course Title The **British** ~~English~~ Novel II

Catalog

Description

A study of the development of the novel with major attention given to the Victorian and 20th century novelists.

Prerequisites

English 1120 and a semester of college literature.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for
change:

Simple title change--"English" to "British" in keeping with "British Novel I,"
"Contemporary British...", "British Romantic..." etc.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 976

Course Inventory Change Request

Date Submitted: 04/26/14 5:32 pm

Viewing: **ERP 6610.TBD ~~5610~~: Advanced**

Customer Relationship Management in ERP Environment

File: 2527.1

Last edit: 04/26/14 5:32 pm

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Enterprise Resource Planning (ERP)

Course Number **6610-~~5610~~**

Title

In Workflow

1. **RBUSADMN
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. Peoplesoft

Approval Path

1. 04/27/14 8:58 pm
siauk: Approved
for RBUSADMN
Chair
2. 04/28/14 11:51
am
kleb6b: Approved
for CCC Secretary
3. 04/28/14 11:53

am
 barryf: Approved
 for Social
 Sciences DSCC
 Chair

Advanced Customer Relationship Management in ERP Environment

Abbreviated Adv CRM
 Course Title

Catalog

Description

Identification (targeting), acquisition, retention, and development (expansion) of (profitable) customers. Effective and efficient mgmt of customers, using IT. SAP CRM, SAS BI tools, and Sybase mobile application development are used. Research paper and presentation required. ~~Students can't take both ERP 4610 and ERP 5610 for credit.~~

Prerequisites

ERP 2110 or preceded or accompanied by ERP 5110.

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:

course renumbering initiative

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2527

Course Inventory Change Request

Date Submitted: 04/08/14 12:58 pm

Viewing: **FRENCH 1101 : Elementary French I**

File: 2577.1

Last edit: 04/08/14 12:58 pm

Changes proposed by: lahne

Other Courses
referencing this
course

In The Catalog Description:

[FRENCH 1102 : Elementary French II](#)

In The Prerequisites:

[FRENCH 1102 : Elementary French II](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	French (FRENCH)
Course Number	1101
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. Peoplesoft

Approval Path

1. 04/08/14 1:17 pm
lance: Approved for RPHILOSO Chair
2. 04/08/14 1:46 pm
kleb6b: Approved for CCC Secretary
3. 04/08/14 1:51 pm
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Elementary French I

Abbreviated Course Title Elementary French I

Catalog

Description

Introduction to reading, conversation, and grammar. ~~Laboratory optional.~~

Prerequisites

Entrance requirements.

Field Trip

Statement

Credit Hours	LEC: 4	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 4

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

Majors

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

Majors

Justification for

change:

The course description will be unifromed for all FL 1101 classes.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2577

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/21/14 5:02 pm

Viewing: **GEO ENG 1810 : Humanitarian**

Engineering and Science Colloquium

File: 4077

Last edit: 05/21/14 11:08 am

Changes proposed by: elmoreac

Requested	Fall 2014
Effective Change Date	
Department	Geological Sciences and Engineering
Discipline	Geological Engineering (GEO ENG)
Course Number	1810
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. Peoplesoft

Approval Path

1. 04/22/14 3:10 pm
reflori: Approved for RGEOENG Chair
2. 04/22/14 3:24 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:18 am
sraper: Approved for Engineering

DSCC Chair

4. 04/30/14 11:46

am

kleb6b: Approved

for Pending CCC

Agenda post

Humanitarian Engineering and Science Colloquium

Abbreviated HES Colloquium

Course Title

Catalog

Description

Course introduces Humanitarian Engineering & Science Minor students to topics such as impact of Western interventions on developing cultures, ethics and engineering, frugal engineering, the role of civic engagement in corporate culture, responsible behavior in outreach programs, and others. Cannot be used for credit towards Geological Engineering B.S.

Prerequisites

Open to undergraduate students pursuing the Humanitarian Engineering and Science Minor.

Field Trip

Statement

Not applicable.

Credit Hours	LEC: 0	LAB: 0	IND: 0	RSD: 0.5
--------------	--------	--------	--------	----------

Total: 0.5

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

Majors

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

Majors

Justification for
new course:

This course is to be offered for S/U credit. This course cannot be used as credit towards a B.S., M.S., M.E. or Ph.D. in Geological Engineering.

This is a required course for the Humanitarian Engineering and Science Minor. This is a required course for the Humanitarian Engineering and Science Minor. The civic engagement element of the HES Minor addresses Lever 1.1 of the Strategic Plan which requires all undergraduates to participate in some significant experiential learning activity before graduation. The development of a HES Minor is explicitly included in Prioritized Action 1.2. 6 “(d)velop minor and certificate programs in leadership, entrepreneurship, humanitarian engineering and science, and creativity”. Students participating in their civic engagement activities during any future intercession or spring break time periods would help address Prioritized Action 1.2.5.

Semesters

previously

offered as an

experimental

course

0

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4077

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/21/14 5:02 pm

Viewing: **GEO ENG 1880 : Civic Engagement**

File: 4076

Last edit: 04/22/14 3:11 pm

Changes proposed by: elmoreac

Requested Fall 2014

Effective Change

Date

Department Geological Science and Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 1880

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. Peoplesoft

Approval Path

1. 04/22/14 3:11 pm
reflori: Approved for RGEOENG Chair
2. 04/22/14 3:24 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:18 am
sraper: Approved for Engineering

Civic Engagement

Abbreviated Civic Engagement
Course Title

Catalog

Description

Course provides a formal independent study framework so that Humanitarian Engineering & Science Minor students and other students have the opportunity to achieve formal recognition of experiential service learning that may occur during participation in extracurricular programs. Cannot be used for credit towards Geological Engineering B.S.

Prerequisites

Open to undergraduate students pursuing the Humanitarian Engineering and Science Minor and other students.

Field Trip

Statement

Students will work with S&T as well as corporate and community partners to formally identify extracurricular projects. Those projects may be executed near the S&T campus, the surrounding community, other areas in Missouri or the United States, or foreign countries. The participating students and/or the sponsoring partners will be responsible for the costs associated with the individual experiential service learning projects.

Credit Hours	LEC: 0	LAB: 0	IND: 0.5	RSD: 0
Total:	0.5			

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

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

Justification for
new course:

This course is to be offered for S/U credit. This course cannot be used as credit towards a B.S., M.S., M.E. or Ph.D. in Geological Engineering.

This is a required course for the Humanitarian Engineering and Science Minor. The civic engagement element of the HES Minor addresses Lever 1.1 of the Strategic Plan which requires all undergraduates to participate in some significant experiential learning activity before graduation. The development of a HES Minor is explicitly included in Prioritized Action 1.2. 6 “(d)velop minor and certificate programs in leadership, entrepreneurship, humanitarian engineering and science, and creativity”. Students participating in their civic engagement activities during any future intercession or spring break time periods would help address Prioritized Action 1.2.5.

Semesters

previously

offered as an

experimental

course

0

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4076

Course Inventory Change Request

Date Submitted: 01/28/14 2:43 pm

Viewing: **GEO ENG 5211.TBD ~~311~~: Introduction to International Engineering and Design Lab**

File: 2218.1

Last edit: 05/02/14 10:27 am

Changes proposed by: norbert

Requested	Fall 2014 17-Aug-09
Effective Change	
Date	
Department	Geological Science and Engineering
Discipline	Geological Engineering (GEO ENG)
Course Number	5211 311
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. Peoplesoft

Approval Path

1. 03/07/14 4:14 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:15 am
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:10 am

sraper: Approved
 for Engineering
 DSCC Chair
 4. 04/30/14 11:48
 am
 kleb6b: Approved
 for Pending CCC
 Agenda post

Introduction to International Engineering and Design Lab

Abbreviated Intro Internat Engr & Dsgn
 Course Title Lab

Catalog

Description

The lab for multi-disciplinary design will be as follows: Students will develop a work plan to address design objectives and other considerations including scheduling, budgeting, environmental impacts, and life cycle design.

Prerequisites

Senior standing, instructor approval, accompanied by Geo Eng **5247. 345.**

Field Trip

Statement

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

Total: 1

Required for No

Majors

Elective for **Yes-~~No~~**

Majors

Justification for

change:

The accompanying course is Geo Eng 347 not GE 345. Printing error.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2218

Course Inventory Change Request

Date Submitted: 01/27/14 3:28 pm

Viewing: **GEOLOGY 1141.TBD 307: Physical Oceanography**

File: 1890.1

Last edit: 05/02/14 10:31 am

Changes proposed by: ikuenobe

Requested	Spring 2015 3-Jan-05
Effective Change	
Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	1141 307
Title	

In Workflow

- RGEOSENG Chair**
- CCC Secretary**
- Sciences DSCC Chair**
- Pending CCC Agenda post**
- CCC Meeting Agenda**
- Campus Curricula Committee Chair
- FS Meeting Agenda
- Faculty Senate Chair
- Registrar
- Peoplesoft

Approval Path

- 03/07/14 4:24 pm
reflori: Approved for RGEOSENG Chair
- 03/11/14 10:18 am
kleb6b: Approved for CCC Secretary
- 04/10/14 6:50 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:53
am

kleb6b: Approved
for Pending CCC
Agenda post

Physical Oceanography

Abbreviated Physical Oceanography
Course Title

Catalog

Description

An introduction to the study of the physical and geological processes in the world's oceans including the importance of the oceans to the environment and to life on Earth.

Prerequisites

Geology **1110** ~~325~~ or **Geology 1120** or equivalent.

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:

Geology 325 became 425 and is now a graduate level course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1890

Course Inventory Change Request

Date Submitted: 11/22/13 3:29 pm

Viewing: **GEOLOGY 2096.TBD ~~373~~: Field**

Geology

File: 830.1

Last edit: 05/02/14 10:32 am

Changes proposed by: jhogan

Requested	Spring 2015 1 Jul 04
Effective Change	
Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	2096 373
Title	

In Workflow

- 1. RGEOENG 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. Peoplesoft

Approval Path

- 03/07/14 4:25 pm
reflori: Approved for RGEOENG Chair
- 03/11/14 10:18 am
kleb6b: Approved for CCC Secretary
- 04/10/14 6:51 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:55
am

kleb6b: Approved
for Pending CCC
Agenda post

Field Geology

Abbreviated Field Geology
Course Title

Catalog

Description

~~Field practice in geologic mapping and interpretation in the Western United States using topographic base maps and aerial photos.~~ **Theory and practice in the qualitative and quantitative** ~~Emphasizes the~~ description ~~and interpretation~~ of spatial relationships of major rock types, contacts, and structures through construction of geologic maps. ~~stratigraphic sections, sedimentary and tectonic structures.~~ **Emphasis on developing fundamental field skills, including logistical planning, navigation, data collection and documentation, and professional protocol during site visits.**

Prerequisites

Geo 1111, 1110, 1119, & 1129. ~~Two Geology courses.~~

Field Trip

Statement

Students will be charged a fee to cover the cost of field trip expenses.

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

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

Elective for No

Majors

Justification for

change:

The change in the course catalog and from lab to lecture reflects the change in the instructional style of this course and content presented to reflect the gradual change that has taken place in this required course over the last five to seven years, and looking forward into the future.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 830

Course Inventory Change Request

Date Submitted: 11/22/13 1:57 pm

Viewing: **GEOLOGY 3310 ~~220~~: Structural Geology**

File: 809.1

Last edit: 05/21/14 11:10 am

Changes proposed by: jhogan

Programs

referencing this
course

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

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

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

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

Other Courses

referencing this
course

In The Prerequisites:

[EXP ENG 5612 : Principles Of Explosives Engineering](#)

[GEOLOGY 6211 : Geodynamics](#)

[GEOLOGY 6311 : Advanced Structural Geology](#)

[GEOLOGY 6321 : Analytical Structural Geology](#)

[GEOLOGY 6331 : Geotectonics](#)

[GEOLOGY 6811 : Sedimentary Basin Analysis](#)

[GEOPHYS 4096 : Global Tectonics](#)

[GEOPHYS 5211 : Seismic Stratigraphy](#)

[MIN ENG 4823 : Rock Mechanics](#)

[MIN ENG 5612 : Principles Of Explosives Engineering](#)

In Workflow

1. **RGEOENG 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. Peoplesoft

Approval Path

1. 03/07/14 4:15 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:15 am
kleb6b: Approved for CCC Secretary
3. 03/22/14 1:05 pm
tauritzd:

[PET ENG 4710 : Finite Element Analysis with Applications in Petroleum Engineering](#)
[PET ENG 4720 : Mechanical Earth Modeling](#)
[PET ENG 6711 : Geodynamics](#)

Approved for
 Sciences DSCC
 Chair
 4. 04/30/14 11:50
 am
 kleb6b: Approved
 for Pending CCC
 Agenda post

Requested **Spring 2015** ~~1-Jul-04~~
 Effective Change
 Date
 Department Geological Sciences and Engineering
 Discipline Geology (GEOLOGY)
 Course Number **3310** ~~220~~
 Title Structural Geology
 Abbreviated Structural Geology
 Course Title

Catalog

Description

Students will develop of an appreciation for the geometrical beauty of geologic structures through an understanding of crustal deformation at scales from mineral lattices to tectonic plates. ~~A study of the architecture of the earth. Geologic structures, criteria for recognition, solution of structural problems, and properties and behavior of rocks under different geologic conditions are emphasized.~~

Prerequisites

GEOLOGY 1110 or GEO ENG 1111. ~~Geology 51 or Geo Eng 50.~~

Field Trip

Statement

Field trip fee required.

Credit Hours LEC: 3 LAB: **0** ~~1~~ IND: 0 RSD: 0
 Total: **3** ~~4~~

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

Elective for No

Majors

Justification for

change:

Creation of an independent lab (similar to most other sciences courses on campus) will help us Increase flexibility for both students and instructors in taking and teaching the material presented.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 809

Course Inventory Change Request

New Course Proposal

Date Submitted: 11/22/13 2:27 pm

Viewing: **GEOLOGY 3319.TBD : Structural**

Geology Lab

File: 4027

Last edit: 05/01/14 3:07 pm

Changes proposed by: jhogan

Requested	Fall 2014
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	3319
Title	

In Workflow

1. **RGEOENG 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. Peoplesoft

Approval Path

1. 03/07/14 4:16 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:16 am
kleb6b: Approved for CCC Secretary
3. 03/22/14 1:06 pm
tauritzd:

Approved for
Sciences DSCC
Chair

Structural Geology Lab

Abbreviated Course Title Structural Geology Lab

Catalog

Description

This course reinforces the principles of Structural Geology through detailed analysis of rock deformation. Techniques will include using a geologic compass, preparing rock descriptions, stereographic analysis, interpretation of geologic maps, construction of cross-sections, and orthographic projections to solve scientific and engineering problems.

Prerequisites

Preceded or accompanied by Geology 3310

Field Trip

Statement

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

Total: 1

Required for Majors	Yes
---------------------	-----

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

Justification for

new course:

Creation of an independent laboratory course (similar to other sciences courses) will increase the flexibility for students and instructors in taking and teaching this course.

Semesters

previously

offered as an
experimental
course

Previously this material has been presented in a lab that is part of the course.

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4027

Course Inventory Change Request

Date Submitted: 11/22/13 3:44 pm

Viewing: **GEOLOGY 374/4097.TBD 374:**

Advanced Field Geology

File: 831.1

Last edit: 04/23/14 2:00 pm

Changes proposed by: jhogan

Requested	Spring 2015 1-Jul-04
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	374/4097 374
Title	

In Workflow

- 1. RGEOSENG 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. Peoplesoft

Approval Path

- 03/12/14 3:15 pm
reflori: Approved for RGEOSENG Chair
- 03/12/14 3:50 pm
kleb6b: Approved for CCC Secretary
- 04/10/14 6:52 pm
tauritzd:
Approved for

Sciences DSCC
Chair

Advanced Field Geology

Abbreviated Course Title Advanced Field Geology

Catalog

Description

Advanced instruction ~~Detailed field work~~ in theory and practice ~~areas related to the projects~~ of qualitative and quantitative description of spatial relationships of rock types in areas exhibiting complex deformation. ~~Geology 373.~~ Emphasis on experiential learning where students plan, implement, and reflect on outcomes for several scientific field campaigns in a manner consistent with professional scientific practices. ~~Courses to be taken the same summer. A written report on the full summer's projects is required.~~

Prerequisites

Geology 2610, 2620, 3310, 3620, 3629, and 2096. ~~Geology 373.~~

Field Trip

Statement

Students will be charged a fee to cover the cost of field trip expenses.

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

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

Elective for Majors No

Justification for change:

The change in the course catalog and from lab to lecture reflects the change in the instructional style of this course and content presented to reflect the gradual change that has taken place in this required course over the last five to seven years, and

looking forward into the future.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 831

Course Inventory Change Request

New Course Proposal

Date Submitted: 03/12/14 2:40 pm

Viewing: **GEOLOGY 4651 : Carbonate**

Sedimentology

File: 4063

Last edit: 04/16/14 10:50 am

Changes proposed by: pattyr

Requested	Fall 2014
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	4651
Title	

In Workflow

1. **RGEOENG 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. Peoplesoft

Approval Path

1. 03/12/14 3:16 pm
reflori: Approved for RGEOENG Chair
2. 03/12/14 3:50 pm
kleb6b: Approved for CCC Secretary
3. 04/10/14 6:57 pm
tauritzd:
Approved for

Carbonate Sedimentology

Abbreviated Carbonate Sedimentology
Course Title

Catalog

Description

This course focuses on the origin of carbonate sedimentary rocks including provenance, depositional conditions and diagenetic history. It covers detailed descriptions and discussions of grain composition, texture, structure, classification and related sedimentary processes and depositional models. Weekly labs will reinforce critical concepts.

Prerequisites

Geology 3630 (223) and Geology 3639 (224)

Field Trip

Statement

1-2 field trips are planned. Field trip participation and exercises are mandatory and at no cost to the students.

Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 3

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

Majors

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

Majors

Justification for
new course:

Department request.

Semesters

previously

offered as an

experimental

course

Too many years ago (~10 years ago) when it was last offered.

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4063

Course Inventory Change Request

Date Submitted: 01/27/14 3:30 pm

Viewing: **GEOLOGY 4721 309-: Meteorology and Climatology**

File: 1893.1

Last edit: 05/21/14 11:12 am

Changes proposed by: ikuenobe

Requested	Spring 2015 3-Jan-05
Effective Change Date	
Department	Geological Sciences and Engineering
Discipline	Geology (GEOLOGY)
Course Number	4721-309
Title	

In Workflow

1. **RGEOSENG 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. Peoplesoft

Approval Path

1. 03/07/14 4:24 pm
reflori: Approved for RGEOSENG Chair
2. 03/11/14 10:18 am
kleb6b: Approved for CCC Secretary
3. 04/10/14 6:51 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:54
am

kleb6b: Approved
for Pending CCC
Agenda post

Meteorology and Climatology

Abbreviated Course Title Meteorology & Climatology

Catalog

Description

An introduction to the atmospheric and climatic systems of the Earth including weather, paleoclimatology, and global climate change.

Prerequisites

GEOLOGY 1110 ~~Geology 325~~ or **GEOLOGY 1120** or equivalent.

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:

Geology 325 became 425 and is now a graduate level course.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1893

Course Inventory Change Request

Date Submitted: 01/27/14 3:38 pm

Viewing: **GEOLOGY 5631.TBD 432: Carbonate Petrology**

File: 1793.1

Last edit: 05/02/14 10:34 am

Changes proposed by: ikuenobe

Requested	Fall 2014 1-Jul-04
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	5631 432
Title	

In Workflow

1. **RGEOENG 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. Peoplesoft

Approval Path

1. 03/07/14 4:29 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:19 am
kleb6b: Approved for CCC Secretary
3. 04/10/14 6:54 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:57
am

kleb6b: Approved
for Pending CCC
Agenda post

Carbonate Petrology

Abbreviated Course Title Carbonate Petrology

Catalog

Description

Petrology, chemistry and sedimentology of carbonates and other associated chemical sedimentary rocks.

Prerequisites

Geology **2620, 3620** ~~130, 114, 223~~ and Chem **1320 3** or **equivalent; equivalent**
Geology **3410** ~~275~~ recommended.

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for No
Majors

Justification for

change:

Geology 114 is inactive as of 12/18/1998

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1793

Course Inventory Change Request

Date Submitted: 01/27/14 3:40 pm

Viewing: **GEOLOGY 5641.TBD 433-: Advanced
Igneous Petrology**

File: 1511.1

Last edit: 05/02/14 10:34 am

Changes proposed by: ikuenobe

Requested	Spring 2015 1-Jul-04
Effective Change	
Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	5641 433
Title	

In Workflow

- RGEOSENG Chair**
- CCC Secretary**
- Sciences DSCC
Chair**
- Pending CCC
Agenda post**
- CCC Meeting
Agenda**
- Campus Curricula
Committee Chair
- FS Meeting
Agenda
- Faculty Senate
Chair
- Registrar
- Peoplesoft

Approval Path

- 03/07/14 4:30 pm
reflori: Approved
for RGEOSENG
Chair
- 03/11/14 10:19
am
kleb6b: Approved
for CCC Secretary
- 04/10/14 6:55 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:58
am

kleb6b: Approved
for Pending CCC
Agenda post

Advanced Igneous Petrology

Abbreviated Adv Igneous Petrology
Course Title

Catalog

Description

The genesis of eruptive rocks as evidenced by the physicalchemical conditions of formation of their constituent minerals. A critical examination of various magmatic processes. Use of advanced petrographic techniques.

Prerequisites

Geology **4631**. ~~234~~.

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 1	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 3

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

Majors

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

Majors

Justification for

change:

Geology 234 became 334 8/16/2004.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1511

Course Inventory Change Request

Date Submitted: 01/27/14 3:47 pm

Viewing: **GEOLOGY 5679.TBD 470-: Field and Laboratory Studies in Earth Science**

File: 1897.1

Last edit: 04/30/14 3:19 pm

Changes proposed by: ikuenobe

Requested	Fall 2014 1-Jan-08
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	5679 470
Title	

In Workflow

1. **RGEOENG 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. Peoplesoft

Approval Path

1. 03/07/14 4:31 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:19 am
kleb6b: Approved for CCC Secretary
3. 04/10/14 7:00 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:59
am

kleb6b: Approved
for Pending CCC
Agenda post

Field and Laboratory Studies in Earth Science

Abbreviated Fld & Lab Erth Sci
Course Title

Catalog

Description

Hands-on laboratory and field experiences in the Earth Sciences. This course is designed to be taught in an intensive three week session during the summer on the S&T campus.

Prerequisites

Geology 2096 or 5121 or equivalents. ~~Geology 325 and 326 or equivalents, and at least one additional course in the MST Earth Science program.~~

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for No
Majors

Justification for
change:

Geology 325 became 425 and is now a graduate level course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1897

Course Inventory Change Request

Date Submitted: 01/27/14 3:35 pm

Viewing: **GEOLOGY 6421.TBD 407:**

Environmental Geology

File: 1896.1

Last edit: 05/02/14 10:33 am

Changes proposed by: ikuenobe

Requested	Spring 2015 3-Jan-05
Effective Change	
Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	6421 407
Title	

In Workflow

- 1. RGEOENG 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. Peoplesoft

Approval Path

- 03/07/14 4:29 pm
reflori: Approved for RGEOENG Chair
- 03/11/14 10:18 am
kleb6b: Approved for CCC Secretary
- 04/10/14 6:53 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:57
am

kleb6b: Approved
for Pending CCC
Agenda post

Environmental Geology

Abbreviated Envir Geol
Course Title

Catalog

Description

Overview of environmental problems facing humans. Emphasis will be placed on surface and groundwater pollution, geological hazards, and pressures on Earth's ecosystems and natural resources by urbanization and population growth.

Prerequisites

Geology **1110** ~~325 and 326~~ or **1120** or equivalents.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

change:

Geology 325 became 425 and is now a graduate level course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1896

Course Inventory Change Request

Date Submitted: 01/27/14 3:32 pm

Viewing: **GEOLOGY 6541.TBD 405-: Geology of Natural Resources**

File: 1895.1

Last edit: 05/02/14 10:33 am

Changes proposed by: ikuenobe

Requested	Spring 2015 3-Jan-05
Effective Change	
Date	
Department	Geological Science and Engineering
Discipline	Geology (GEOLOGY)
Course Number	6541 405
Title	

In Workflow

1. **RGEOENG 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. Peoplesoft

Approval Path

1. 03/07/14 4:27 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:18 am
kleb6b: Approved for CCC Secretary
3. 04/10/14 6:53 pm
tauritzd:

Approved for
Sciences DSCC
Chair

4. 04/30/14 11:56
am

kleb6b: Approved
for Pending CCC
Agenda post

Geology of Natural Resources

Abbreviated Geol of Nat Resources
Course Title

Catalog

Description

The origin and distribution of economically important natural resources including soils, water resources, metals, non-metals, building materials, petroleum, and other energy resources.

Prerequisites

Geology **1110** ~~325 and 326~~ or **1120** or equivalents.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

Geology 325 became 425 and is now a graduate level course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1895

Course Inventory Change Request

Date Submitted: 04/08/14 12:58 pm

Viewing: **GERMAN 1101 : Elementary German I**

File: 951.1

Last edit: 04/08/14 12:58 pm

Changes proposed by: lahne

Other Courses
referencing this
course

In The Catalog Description:

[GERMAN 1102 : Elementary German II](#)

In The Prerequisites:

[GERMAN 1102 : Elementary German II](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	German (GERMAN)
Course Number	1101
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. Peoplesoft

Approval Path

1. 04/08/14 1:17 pm
lance: Approved for RPHILOSO Chair
2. 04/08/14 1:46 pm
kleb6b: Approved for CCC Secretary
3. 04/08/14 1:51 pm
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Elementary German I

Abbreviated Course Title Elementary German I

Catalog

Description

Introduction to grammar, reading, and conversation. ~~Laboratory required. (One extra hour per week.)~~

Prerequisites

Entrance requirements.

Field Trip

Statement

Credit Hours	LEC: 4	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 4

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

Majors

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

Majors

Justification for
change:

The course description will be uniformed for all FL 1101 classes.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 951

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/23/14 9:36 am

Viewing: **HISTORY 3246 : War and Gender in**

Twentieth-Century Europe

File: 4080

Last edit: 04/23/14 9:36 am

Changes proposed by: sfogg

Requested	Fall 2014
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	3246
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. Peoplesoft

Approval Path

1. 04/23/14 1:48 pm
lgragg: Approved for RHISTORY Chair
2. 04/23/14 1:52 pm
kleb6b: Approved for CCC Secretary
3. 04/23/14 4:20 pm
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

War and Gender in Twentieth-Century Europe

Abbreviated Course Title European War & Gender

Catalog

Description

This course explores men and women's experiences in France and Germany between 1914 and 1945. Ideas about society changed in the twentieth century due to war; these changes were reflected in politics and changed relationships between men and women. Seminar-style course.

Prerequisites

HISTORY 1200

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:

Has been offered twice as an experimental course

Semesters

previously offered as an experimental

course

2006, Spring 2011

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4080

Course Inventory Change Request

Date Submitted: 04/30/14 3:29 pm

Viewing: **IS&T 4261 : Information Systems
Project Management**

File: 935.4

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

Last edit: 04/30/14 3:29 pm

Changes proposed by: lahne

Programs
referencing this
course

[MGMT-MI: Management Minor](#)

Other Courses
referencing this
course

In The Prerequisites:

[IS&T 5261 : Advanced Information Systems Project
Management](#)

Requested	Fall 2014
Effective Change Date	
Department	Business and Information Technology
Discipline	Info Science & Technology (IS&T)
Course Number	4261
Title	

In Workflow

1. **RINFSCTE 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. Peoplesoft

Approval Path

1. 04/30/14 10:15
pm

siauk: Approved

for RINFSCTE

Chair

2. 05/01/14 1:16 pm

kleb6b: Approved

for CCC Secretary

3. 05/01/14 1:20 pm

barryf: Approved

for Social
Sciences DSCC
Chair

History

1. Apr 28, 2014 by
barryf (935.1)

Information Systems Project Management

Abbreviated Info Syst Project Mgt
Course Title

Catalog

Description

The course overviews general project management principles and then focuses on information system application development. Topics include requirements analysis, project scheduling, risk management, quality assurance, testing, and team coordination.

Prerequisites

Strong programming knowledge and Senior standing. ~~IS&T 4261 and IS&T 5261 cannot both be taken for credit.~~

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:

Course Renumbering Initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 935

Course Inventory Change Request

Date Submitted: 04/30/14 3:28 pm

Viewing: **IS&T 4335 : Fundamentals of Mobile Technology for Business**

File: 2391.5

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

Last edit: 04/30/14 3:28 pm

Changes proposed by: lahne

Programs
referencing this
course

[E&S COM-MI: Elect & Social Commerce Minor](#)

[ENTPRNS-MI: Entrepreneurship Minor](#)

[MOBLB&T-MI: Mobile Bus & Tech Minor](#)

Other Courses
referencing this
course

In The Prerequisites:

[IS&T 5335 : Mobile Technology for Business](#)

Requested	Fall 2014
Effective Change Date	
Department	Business and Information Technology
Discipline	Info Science & Technology (IS&T)
Course Number	4335
Title	

In Workflow

1. **RINFSCTE 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. Peoplesoft

Approval Path

1. 04/30/14 10:15 pm

si auk: Approved

for RINFSCTE

Chair

2. 05/01/14 1:16 pm

kleb6b: Approved

for CCC Secretary

3. 05/01/14 1:20 pm

barryf: Approved

for Social
Sciences DSCC
Chair

History

1. Apr 28, 2014 by
barryf (2391.1)

Fundamentals of Mobile Technology for Business

Abbreviated Fund MobileTech for Bus
Course Title

Catalog

Description

A broad overview of mobile technology use in business environments. Topics include the mobile industry; mobile network and wireless standards; mobile devices; mobile web design and app development; social and user experience issues; mobile marketing and commerce.

Prerequisites

IS&T 3333. ~~IS&T 4335 and IS&T 5335 cannot both be taken for credit.~~

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for No

Majors

Justification for

change:

Course Renumbering Initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2391

Course Inventory Change Request

Date Submitted: 05/02/14 8:45 am

Viewing: **IS&T 4641 : Electronic and Mobile Commerce**

File: 925.4

Last approved: 05/02/14 3:46 am

Last edit: 05/02/14 8:45 am

Changes proposed by: lahne

Programs
referencing this
course

[BUS&MS-BS: Business and Mgmt Systems BS](#)

[CP ENG-BS: Computer Engineering BS](#)

[E&S COM-MI: Elect & Social Commerce Minor](#)

[ENTPRNS-MI: Entrepreneurship Minor](#)

[IST-BS: Information Science and Tch BS](#)

[MOBLB&T-MI: Mobile Bus & Tech Minor](#)

Other Courses
referencing this
course

In The Catalog Description:

[IS&T 6641.TBD : Advanced Electronic and Mobile Commerce](#)

Requested	Fall 2014
Effective Change Date	
Department	Business and Information Technology
Discipline	Info Science & Technology (IS&T)

In Workflow

1. **RINFSCTE 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. Peoplesoft

Approval Path

1. 05/02/14 12:05 pm

si auk: Approved

for RINFSCTE

Chair

2. 05/02/14 1:07 pm

kleb6b: Approved

for CCC Secretary

3. 05/02/14 3:11 pm

barryf: Approved

Course Number 4641

Title

for Social
Sciences DSCC
Chair

History

1. May 2, 2014 by
barryf (925.1)

Electronic and Mobile Commerce

Abbreviated Course Title Electronic and Mobile
Commerce

Catalog

Description

Introduction to fundamental concepts of management and application to IT and support of commerce. Examines the use of IT in business processes and the management issues of integrating IT into organization processes to gain a competitive advantage.

Prerequisites

IS&T 1750 and at least Sophomore standing. ~~IS&T 4641 and IS&T 5641 cannot both be taken for credit.~~

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:

Course renumbering initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 925

Course Inventory Change Request

Date Submitted: 05/02/14 8:44 am

Viewing: **IS&T 4654 : Web and Digital Media Development**

File: 920.5

Last approved: 05/02/14 3:46 am

Last edit: 05/02/14 8:44 am

Changes proposed by: lahne

Programs
referencing this
course

[BUS&MS-BS: Business and Mgmt Systems BS](#)

[ENTPRNS-MI: Entrepreneurship Minor](#)

[IST-BS: Information Science and Tch BS](#)

Other Courses
referencing this
course

In The Catalog Description:

[IS&T 6654.TBD : Advanced Web and Digital Media Development](#)

In The Prerequisites:

[IS&T 5652 : Advanced Web Development](#)

Requested Fall 2014
Effective Change
Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

In Workflow

1. **RINFSCTE 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. Peoplesoft

Approval Path

1. 05/02/14 12:05
pm

siauk: Approved

for RINFSCTE

Chair

2. 05/02/14 1:07 pm

kleb6b: Approved

for CCC Secretary

3. 05/02/14 3:11 pm

barryf: Approved

Course Number 4654

Title

for Social
Sciences DSCC
Chair

History

1. May 2, 2014 by
barryf (920.1)

Web and Digital Media Development

Abbreviated Course Title
Web and Digital Media Dev

Catalog

Description

This course covers techniques and tools for design and development of web-based media, including text, graphics, animation, audio, and video.

Prerequisites

IS&T 1750. ~~IS&T 4654 and IS&T 5654 cannot both be taken for credit.~~

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:

Course renumbering initiative.

Semesters

previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 920

Course Inventory Change Request

Date Submitted: 05/01/14 4:23 pm

Viewing: **IS&T 6261.TBD ~~5261~~: Advanced**

Information Systems Project Management

File: 2254.4

Last approved: 05/01/14 4:13 am

Last edit: 05/01/14 4:23 pm

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number **6261-~~5261~~**

Title

In Workflow

1. **RINFSCTE 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. Peoplesoft

Approval Path

1. 05/01/14 8:13 pm

siauk: Approved

for RINFSCTE

Chair

2. 05/02/14 7:44 am

kleb6b: Approved

for CCC Secretary

3. 05/02/14 8:19 am

barryf: Approved

for Social

Sciences DSCC
Chair

History

1. May 1, 2014 by
barryf (2254.1)

Advanced Information Systems Project Management

Abbreviated Course Title Adv IS Project Management

Catalog

Description

Project management principles, first from a general perspective, and then focused specifically on information system application development are explored. Topics include requirements analysis, project scheduling, risk management, quality assurance, testing, and team coordination. Report writing and research literature searches are required.

Prerequisites

IS&T MS Entrance requirements, with strong programming knowledge. ~~IS&T 4261 and IS&T 5261 cannot both be taken for credit.~~

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:

Course renumbering.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2254

Course Inventory Change Request

Date Submitted: 05/02/14 8:41 am

Viewing: **IS&T 6335 ~~5335~~: Mobile Technology
for Business**

File: 1871.4

Last approved: 05/02/14 3:46 am

Last edit: 05/21/14 11:14 am

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number **6335-~~5335~~**

Title

In Workflow

1. RINFSCTE 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. Peoplesoft

Approval Path

1. 05/02/14 12:05
pm

siauk: Approved

for RINFSCTE

Chair

2. 05/02/14 1:07 pm

kleb6b: Approved

for CCC Secretary

3. 05/02/14 3:11 pm

barryf: Approved

for Social
Sciences DSCC
Chair

4. 05/02/14 3:13 pm
kleb6b: Approved
for Pending CCC
Agenda post

History

1. May 2, 2014 by
barryf (1871.1)

Mobile Technology for Business

Abbreviated	Mobile Technology for
Course Title	Business

Catalog

Description

Overview of mobile technology use in business environments. Topics include: mobile industry; mobile network and wireless standards; mobile devices; mobile web design and app development; social and user experience issues; mobile marketing and commerce. Project required.

Prerequisites

IS&T 3333 or **equivalent.** ~~equivalent, Graduate standing. IS&T 4335 and IS&T 5335 cannot both be taken for credit.~~

Field Trip

Statement

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

Total: 3

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

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

Majors

Justification for
change:

Course renumbering initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1871

Course Inventory Change Request

Date Submitted: 04/26/14 5:45 pm

Viewing: **IS&T 6641 ~~5641~~: Advanced Electronic and Mobile Commerce**

File: 961.1

Last edit: 05/21/14 11:15 am

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number **6641-~~5641~~**

Title

In Workflow

1. RINFSCTE 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. Peoplesoft

Approval Path

1. 04/27/14 8:56 pm
siauk: Approved
for RINFSCTE
Chair
2. 04/28/14 11:51
am
kleb6b: Approved
for CCC Secretary
3. 04/28/14 11:53
am

barryf: Approved
for Social
Sciences DSCC
Chair

4. 04/30/14 2:15 pm
kleb6b: Approved
for Pending CCC
Agenda post

Advanced Electronic and Mobile Commerce

Abbreviated	Adv Elect & Mobile
Course Title	Commerce

Catalog

Description

Fundamental concepts of management and application to IT and support of commerce. Examines the use of IT in business processes and the management issues of integrating IT into organization processes to gain a competitive advantage.

Includes a major end-of-semester project. ~~Cannot receive credit for IS&T 4641 and IS&T 5641.~~

Prerequisites

Knowledge of management information ~~systems. systems and 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:

course renumbering initiative.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 961

Course Inventory Change Request

Date Submitted: 04/26/14 5:46 pm

Viewing: **IS&T 6654 ~~5654~~: Advanced Web and Digital Media Development**

File: 445.1

Last edit: 05/21/14 11:17 am

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number **6654 ~~5654~~**

Title

In Workflow

1. RINFSCTE 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. Peoplesoft

Approval Path

1. 04/27/14 8:56 pm

siauk: Approved

for RINFSCTE

Chair

2. 04/28/14 11:51

am

kleb6b: Approved

for CCC Secretary

3. 04/28/14 11:53

am

barryf: Approved
for Social
Sciences DSCC
Chair
4. 04/30/14 2:16 pm
kleb6b: Approved
for Pending CCC
Agenda post

Advanced Web and Digital Media Development

Abbreviated Course Title Advanced Digital Media

Catalog

Description

This course covers advanced techniques and tools for the design and development of web-based media, including text, graphics, animation, audio, and video. This course is an advanced version of Web and Digital Media Development, with additional assignments. ~~No credit for both IS&T 4654 and IS&T 5654.~~

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:

course renumbering initiative

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 445

Course Inventory Change Request

Date Submitted: 04/26/14 5:42 pm

Viewing: **IS&T 6680 ~~5680~~: Advanced Web and New Media Studies**

File: 1614.4

Last approved: 04/25/14 3:06 pm

Last edit: 05/21/14 11:20 am

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number **6680-5680**

Title

In Workflow

1. RINFSCTE 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. Peoplesoft

Approval Path

1. 04/27/14 8:56 pm
siauk: Approved
for RINFSCTE
Chair
2. 04/28/14 11:51
am
kleb6b: Approved
for CCC Secretary
3. 04/28/14 11:53
am

barryf: Approved
for Social
Sciences DSCC
Chair

4. 04/30/14 2:17 pm
kleb6b: Approved
for Pending CCC
Agenda post

History

1. Apr 25, 2014 by
lahne (1614.1)

Advanced Web and New Media Studies

Abbreviated Course Title Advanced Web Studies

Catalog

Description

The course covers web culture, including topics such as social media; citizen journalism, crowd intelligence, privacy, and copyright. This course is an advanced version of Intro to Web Studies, with additional assignments. ~~IS&T 4680 and IS&T 5680 cannot both be taken for credit.~~

Prerequisites

~~Graduate standing.~~

Field Trip

Statement

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

Total: 3

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

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

Majors

Justification for
change:

Course Renumbering Initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1614

Course Inventory Change Request

Date Submitted: 03/06/14 10:54 am

Viewing: **MATH 4530 : Topics In Geometry**

File: 2659.1

Last edit: 04/16/14 10:57 am

Changes proposed by: imorgan

Programs

referencing this
course

[AP MATH-BS: Applied Mathematics BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[MATH 6540 : Geometric Structures](#)

Requested Fall 2014

Effective Change

Date

Department Mathematics & Statistics

Discipline Mathematics (MATH)

Course Number 4530

Title

In Workflow

1. **RMATHEMA
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. Peoplesoft

Approval Path

1. 03/06/14 11:12
am
sclark: Approved
for RMATHEMA
Chair
2. 03/11/14 10:19
am
kleb6b: Approved
for CCC Secretary

3. 04/10/14 7:00 pm
 tauritzd:
 Approved for
 Sciences DSCC
 Chair

Topics In Geometry

Abbreviated Topics In Geometry
 Course Title

Catalog

Description

A survey of non-Euclidean geometries, finite geometries, affine and projective planes, metric postulates for the Euclidean plane, and selected topics. **Credit will not be given for both Math 4530 and Math 5530.**

Prerequisites

Math 3108.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

change:

While the requirements will be different for undergraduate and graduate students, there will be too much overlap between 4530 and 5530 to grant credit for both.

Semesters

previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2659

Course Inventory Change Request

Date Submitted: 03/06/14 10:55 am

Viewing: **MATH 5530 : Topics in Geometry -
Graduate Option**

File: 1578.1

Last edit: 05/21/14 11:21 am

Changes proposed by: imorgan

Requested	Fall 2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	5530
Title	

In Workflow

1. **RMATHEMA
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. Peoplesoft

Approval Path

1. 03/06/14 11:13
am
sclark: Approved
for RMATHEMA
Chair
2. 03/11/14 10:19
am
kleb6b: Approved
for CCC Secretary

3. 04/10/14 7:00 pm
tauritzd:
Approved for
Sciences DSCC
Chair
4. 04/30/14 2:18 pm
kleb6b: Approved
for Pending CCC
Agenda post

Topics in Geometry - **Graduate Option**

Abbreviated Course Title Topics in Geometry **Grad**

Catalog

Description

A survey of non-Euclidean geometries, finite geometries, affine and projective planes, metric postulates for the Euclidean plane, and selected topics. Students will demonstrate graduate-level mastery of the subject matter. **Credit will not be given for both Math 4530 and Math 5530.**

Prerequisites

MATH ~~Math~~ 3108.

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:

While the requirements will be different for undergraduate and graduate students, there will be too much overlap between 4530 and 5530 to grant credit for both.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1578

Course Inventory Change Request

New Course Proposal

Date Submitted: 03/06/14 12:04 pm

Viewing: **MATH 6601 : Numerical Analysis**

File: 4060

Last edit: 05/21/14 11:22 am

Changes proposed by: imorgan

Requested	Fall 2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6601
Title	

In Workflow

1. **RMATHEMA 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. Peoplesoft

Approval Path

1. 03/06/14 12:07 pm
sclark: Approved for RMATHEMA Chair
2. 03/11/14 10:20 am
kleb6b: Approved for CCC Secretary

3. 04/10/14 7:01 pm
tauritzd:
Approved for
Sciences DSCC
Chair
4. 04/30/14 2:18 pm
kleb6b: Approved
for Pending CCC
Agenda post

Numerical Analysis

Abbreviated Numerical Analysis
Course Title

Catalog

Description

A proof based course emphasizing theoretical analysis of convergence and accuracy of various numerical methods including approximate solutions of linear and nonlinear equations, numerical integration, and function approximation, with implementation to validate results and illustrate the methods.

Prerequisites

Any 4000 or higher level MATH course, or any instructor approved 4000 or higher level course from another discipline with a significant computational component.

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for No
Majors

Justification for**new course:**

The course is required for the Computational and Applied Mathematics PhD emphasis area in the mathematics and statistics department.

Semesters

previously

offered as an

experimental

course

FS 2012, FS 2013

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4060

Course Inventory Change Request

New Course Proposal

Date Submitted: 03/06/14 12:17 pm

Viewing: **MATH 6602 : Mathematical**

Foundation of Finite Element Methods

File: 4061

Last edit: 04/16/14 10:58 am

Changes proposed by: imorgan

Requested	Fall 2014
Effective Change Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	6602
Title	

In Workflow

1. **RMATHEMA 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. Peoplesoft

Approval Path

1. 03/06/14 12:18 pm
sclark: Approved for RMATHEMA Chair
2. 03/11/14 10:20 am
kleb6b: Approved for CCC Secretary

3. 04/10/14 7:01 pm
 tauritzd:
 Approved for
 Sciences DSCC
 Chair

Mathematical Foundation of Finite Element Methods

Abbreviated Math Foundation of FEMs
 Course Title

Catalog

Description

Implementation and theoretical analysis of the finite element method for the approximate solution of partial differential equations. Implementation of finite element methods for elliptic and parabolic equations. Theoretical analysis of convergence, accuracy, and stability of approximate solutions.

Prerequisites

Any 4000 or higher level Mathematics course, or any instructor approved 4000 or higher level course from another discipline with a significant computational component

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

new course:

The course is required for the Computational and Applied Mathematics PhD

emphasis area in the mathematics and statistics department.

Semesters

previously

offered as an

experimental

course

SP 2013, SP 2014 (as Finite Elements for PDEs)

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4061

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/08/14 5:29 pm

Viewing: **MECH ENG 5537 : Fuel Cell Principles**

File: 4071

Last edit: 05/21/14 11:23 am

Changes proposed by: nisbett

Requested Fall 2014

Effective Change

Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 5537

Title

In Workflow

1. RMECHENG 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. Peoplesoft

Approval Path

1. 04/08/14 5:39 pm
drallmei:
Approved for
RMECHENG Chair
2. 04/09/14 7:49 am
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:34 am
sraper: Approved
for Engineering

DSCC Chair

4. 04/30/14 2:21 pm

kleb6b: Approved

for Pending CCC

Agenda post

Fuel Cell Principles

Abbreviated Course Title Fuel Cell Principles

Catalog

Description

Fuel cell fundamentals including thermodynamics, reaction kinetics, mass transport, characterization, and modeling are discussed. Different types of fuel cells such as proton exchange membrane and solid oxide are covered together with subsystem design and system integration as well as environmental impacts.

Prerequisites

MECH ENG 3521.

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:

This course has been successfully offered three times and is a continuing topic of importance.

Semesters

previously
offered as an
experimental
course

Spring 2011, Spring 2013, Spring 2014

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4071

Course Inventory Change Request

New Course Proposal

Date Submitted: 02/28/14 10:30 am

Viewing: **MECH ENG 6704 : Mechanics of**

Machinery

File: 4058

Last edit: 05/21/14 11:24 am

Changes proposed by: nisbett

Requested Fall 2014

Effective Change

Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 6704

Title

In Workflow

1. RMECHENG 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. Peoplesoft

Approval Path

1. 02/28/14 1:55 pm
drallmei:
Approved for
RMECHENG Chair
2. 02/28/14 2:59 pm
kleb6b: Approved
for CCC Secretary
3. 03/27/14 10:10
am
sraper: Approved

for Engineering

DSCC Chair

4. 04/30/14 2:22 pm

kleb6b: Approved

for Pending CCC

Agenda post

Mechanics of Machinery

Abbreviated Mechanics of Machinery

Course Title

Catalog

Description

Rigid-body kinematics, dynamics, and synthesis of mechanisms; cam-follower mechanisms; mathematical modeling of mechanisms containing elastic elements; transient and steady-state vibration response; parametric instability in elastic mechanisms; advanced topics in compliant mechanisms; high performance mechanisms will be emphasized.

Prerequisites

Vector & matrix analysis; introductory planar kinematic & dynamic analysis of mechanisms; MECH ENG 5704 or equivalent.

Field Trip

Statement

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for
new course:

This course has been successfully taught 3 times experimentally.

Semesters

previously

offered as an

experimental

course

Fall 2011, Fall 2012, Fall 2013

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4058

Course Inventory Change Request

Date Submitted: 04/14/14 3:09 pm

Viewing: **MET ENG 3130 ~~2120~~: Metals
Microstructural Development**

File: 460.1

Last edit: 04/14/14 3:09 pm

Changes proposed by: smiller

Requested	Fall 2014
Effective Change Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	3130-2120
Title	

In Workflow

1. **RMATSENG 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. Peoplesoft

Approval Path

1. 04/22/14 12:02 pm
huebner:
Approved for
RMATSENG Chair
2. 04/22/14 2:51 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:16 am
sraper: Approved

for Engineering
DSCC Chair

Metals Microstructural Development

Abbreviated Course Title Metals Microstructrl Dev

Catalog

Description

Fundamentals of microstructural developments as relating to solid solutions, solidification and transformations; phase diagrams; case studies.

Prerequisites

"C" or better grade in Met Eng 2110; accompanied or preceded by Cer Eng 3230.

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:

Course is more appropriate at the 3000 level than the 2000 level

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 460

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/14/14 3:07 pm

Viewing: **MET ENG 4425 : Metals Casting Lab**

File: 4074

Last edit: 05/21/14 11:25 am

Changes proposed by: smiller

Requested Fall 2014

Effective Change

Date

Department Materials Science & Engineering

Discipline Metallurgical Engineering (MET ENG)

Course Number 4425

Title

In Workflow

1. **RMATSENG 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. Peoplesoft

Approval Path

1. 04/22/14 12:02
pm
huebner:
Approved for
RMATSENG Chair
2. 04/22/14 2:52 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:16 am
srafer: Approved

for Engineering

DSCC Chair

4. 04/30/14 2:23 pm

kleb6b: Approved

for Pending CCC

Agenda post

Metals Casting Lab

Abbreviated Metals Casting Lab

Course Title

Catalog

Description

A laboratory study of mold materials, metal flow, and cast metals. Emphasis is given to design of gating, risering, and ladle treatment techniques required for economical, high quality castings.

Prerequisites

Accompanied or preceded by MET ENG 4420.

Field Trip

Statement

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

Total: 1

Required for No

Majors

Elective for Yes

Majors

Justification for

new course:

In original course renumbering submission, forgot to include an undergraduate version of Met Eng 5425

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4074

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/14/14 2:59 pm

Viewing: **MET ENG 5620 : Materials Behavior**

File: 4073

Last edit: 05/21/14 11:26 am

Changes proposed by: smiller

Requested Fall 2014

Effective Change

Date

Department Materials Science & Engineering

Discipline Metallurgical Engineering (MET ENG)

Course Number 5620

Title

In Workflow

1. **RMATSENG 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. Peoplesoft

Approval Path

1. 04/22/14 12:02
pm
huebner:
Approved for
RMATSENG Chair
2. 04/22/14 2:52 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:14 am
srafer: Approved

for Engineering
DSCC Chair

4. 04/30/14 2:23 pm
kleb6b: Approved
for Pending CCC
Agenda post

Materials Behavior

Abbreviated Course Title Materials Behavior

Catalog

Description

A course in crystal defects and deformation; mechanical testing; creep; fracture mechanics and fatigue.

Prerequisites

"C" or better grade in both MET ENG 2110 and CIV ENG 2210.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for
new course:

Need a entry level graduate course covering the material on Met Eng 3120

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4073

Course Inventory Change Request

Date Submitted: 05/03/14 3:40 pm

Viewing: **MKT 6580.TBD ~~5580~~: Advanced Marketing Strategy**

File: 1229.6

Last approved: 05/03/14 4:23 am

Last edit: 05/03/14 3:40 pm

Changes proposed by: lahne

Requested Fall 2014

Effective Change

Date

Department Business and Information Technology

Discipline Marketing (MKT)

Course Number **6580-~~5580~~**

Title

In Workflow

1. **RBUSADMN
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. Peoplesoft

Approval Path

1. 05/03/14 8:41 pm
siauk: Approved
for RBUSADMN
Chair
2. 05/05/14 7:54 am
kleb6b: Approved
for CCC Secretary
3. 05/05/14 7:59 am
barryf: Approved

for Social
Sciences DSCC
Chair

4. 05/05/14 11:10
am

lahne: Approved
for Pending CCC
Agenda post

History

1. May 3, 2014 by
lahne (1229.1)

Advanced Marketing Strategy

Abbreviated Course Title Advanced Marketing Strategy

Catalog

Description

Identification and analysis of strategic managerial marketing issues. Integration of marketing concepts through theoretical overview and practical analysis, including extensive use of simulation. Independent work on marketing project.

Prerequisites

Mkt 3110 or Mkt 5105 or Eng Mgt 3510.

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:

Course renumbering initiative.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1229

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/24/14 11:25 am

Viewing: **NUC ENG 3377 : Nuclear Forensics and Radiochemistry**

File: 4087

Last edit: 05/21/14 11:28 am

Changes proposed by: castanoc

Requested	Fall 2014
Effective Change Date	
Department	Mining & Nuclear Engineering
Discipline	Nuclear Engineering (NUC ENG)
Course Number	3377
Title	

In Workflow

1. RMINNUCL 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. Peoplesoft

Approval Path

1. 04/24/14 11:30 am
frimpong:
Approved for RMINNUCL Chair
2. 04/24/14 1:03 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:07 am
sraper: Approved

for Engineering

DSCC Chair

4. 04/30/14 2:27 pm

kleb6b: Approved

for Pending CCC

Agenda post

Nuclear Forensics and Radiochemistry

Abbreviated Nuc Forensic & Rad Chem

Course Title

Catalog

Description

Learn the fundamentals of radiochemistry and its application to the broad field of Nuclear Forensics. Includes a review of nuclear science and cosmochemistry (the origin of the chemical elements), a historical review of spent fuel reprocessing techniques including solvent extraction. A broad review of the modern nuclear forensics field and its importance.

Prerequisites

NUC ENG 2105 recommended.

Field Trip

Statement

n/a

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

There used to be a course Chem 371 - Nuclear and Radiochemistry, that disappeared

due to lack of a qualified professor. The Nuclear Regulatory Commission (NRC) funded the creation of this course with Grant: PPR-NRC-38-10-966. This is the final delivered product. It should/could be co-listed with Chemistry 3377 and Chemical Engineering 3377. Just my recommendation. All engineering students are welcome to my course.

Semesters

previously

offered as an

experimental

course

Spring 2012, Spring 2013, Spring 2014

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4087

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/24/14 12:32 pm

Viewing: **NUC ENG 4253 : Monte Carlo**

Approach to Reactor Analysis

File: 4088

Last edit: 05/21/14 11:29 am

Changes proposed by: alajoa

Requested	Fall 2014
Effective Change Date	
Department	Mining & Nuclear Engineering
Discipline	Nuclear Engineering (NUC ENG)
Course Number	4253
Title	

In Workflow

1. **RMINNUCL 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. Peoplesoft

Approval Path

1. 04/24/14 12:58 pm
frimpong:
Approved for
RMINNUCL Chair
2. 04/24/14 1:04 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:07 am
sraper: Approved

for Engineering
 DSCC Chair
 4. 04/30/14 2:27 pm
 kleb6b: Approved
 for Pending CCC
 Agenda post

Monte Carlo Approach to Reactor Analysis

Abbreviated Applications of MCNP
 Course Title

Catalog

Description

An introduction to a stochastic method for solving particle transport problems with a view to utilize the method in reactor design and analysis, shielding problems, flux calculations, reaction rates determination and general steady state reactor physics analysis.

Prerequisites

Accompanied by NUC ENG 3205.

Field Trip

Statement

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

Total: 3

Required for No
 Majors

Elective for Yes
 Majors

Justification for
 new course:

This was an experimental course (NE 301 -Use of MCNP) which has been taught for 3 consecutive sessions: fall semesters of 2011, 2012 and 2013. The course has gained

popularity amongst nuclear engineering students and it is important in the successful completion of our capstone courses, NE 322 (Nuclear Systems Design I) and NE 323 (Nuclear Systems Design II). Since it has been taught 3 times, there is the need for a permanent number.

Semesters

previously
offered as an
experimental
course

Fall 2011, Fall 2012 and Fall 2013

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4088

Course Inventory Change Request

New Course Proposal

Date Submitted: 03/07/14 3:08 pm

Viewing: **PET ENG 4099.TBD : Undergraduate Research**

File: 4062

Last edit: 04/30/14 2:28 pm

Changes proposed by: reflori

Requested	Fall 2014
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Petroleum Engineering (PET ENG)
Course Number	4099
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. Peoplesoft

Approval Path

1. 03/07/14 4:31 pm
reflori: Approved for RGEOENG Chair
2. 03/11/14 10:21 am
kleb6b: Approved for CCC Secretary
3. 03/27/14 10:10 am

craper: Approved
for Engineering
DSCC Chair

Undergraduate Research

Abbreviated Undergraduate Research
Course Title

Catalog

Description

Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six credit hours allowed for graduation credit. Subject and credit to be arranged with the instructor.

Prerequisites

None.

Field Trip

Statement

Credit Hours LEC: 0 LAB: 0 IND: 0.0-6.0 RSD: 0

Total: 0.0-6.0

Required for No

Majors

Elective for Yes

Majors

Justification for

new course:

To have a 390 option for our undergraduate students who are involved in research.

Semesters

previously
offered as an
experimental
course

N/A

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4062

Course Inventory Change Request

New Course Proposal

Date Submitted: 03/25/14 10:24 am

Viewing: **PET ENG 4109 : Field Studies**

File: 4054

Last edit: 04/22/14 4:30 pm

Changes proposed by: nygaardr

Requested Fall 2014

Effective Change

Date

Department Geological Science and Engineering

Discipline Petroleum Engineering (PET ENG)

Course Number 4109

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. Peoplesoft

Approval Path

1. 04/22/14 4:31 pm
reflori: Approved for RGEOENG Chair
2. 04/23/14 1:18 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:07 am
srapr: Approved for Engineering

Field Studies

Abbreviated Field Studies
Course Title

Catalog

Description

Field trip, which studies different aspects of petroleum engineering like reservoirs, caprocks and traps, drilling rigs, petroleum production facilities, refineries and petroleum engineering research facilities.

Prerequisites

None

Field Trip

Statement

This course takes the students for one week to petroleum operations and geological outcrops in Oklahoma and Texas to expose student to field work in petroleum geology and petroleum engineering. The approximate cost for the course, which is run through distance education, is USD 950.

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

Total: 1

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

Majors

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

Majors

Justification for
new course:

Petroleum engineering students have limited field exposure during their curriculum if they do not get a summer internship. Petroleum students have some short field experiences through their geology classes, but the typical geology class afternoon trips are more overviews in nature and are not designed to deepen and challenge a future petroleum engineer's skill set. Also, in the industry, teamwork between

engineers and geologists is critical in most field developments but is not fully addressed in our undergraduate programs.

This course aims to improve these shortcomings by creating a one week joint field course for petroleum engineering students at Missouri S&T. The field course will this year be offered as a elective class for petroleum engineers.

Semesters

previously
offered as an
experimental
course

Summer 2009 - enrollment=10

Summer 2010 - enrollment = 6

Summer 2012 - enrollment = 6

Co-Listed

Courses:

Course Reviewer

Comments

lahne (03/07/14 2:43 pm): Rollback: .

Key: 4054

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/23/14 3:48 pm

Viewing: **PSYCH 6085 : Internship**

File: 4082

Last edit: 05/21/14 11:32 am

Changes proposed by: lahne

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested	Fall 2014
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6085
Title	

In Workflow

1. **RPSYCHOL 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. Peoplesoft

Approval Path

1. 04/23/14 6:26 pm
nstone: Approved
for RPSYCHOL
Chair
2. 04/24/14 7:44 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 8:57 am
barryf: Approved
for Social

Sciences DSCC
Chair

4. 04/30/14 2:30 pm
kleb6b: Approved
for Pending CCC
Agenda post

Internship

Abbreviated Course Title Internship

Catalog

Description

Students will apply critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting. Requires a major report.

Prerequisites

Completed Core and Methods courses; instructor consent.

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 0	IND: 0-6	RSD: 0
Total: 0-6				

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

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

Justification for new course:

Required for the MS-I/O Psychology degree program.

Semesters previously

offered as an
experimental
course

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4082

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/17/14 5:28 pm

Viewing: **PSYCH 6099 : Research**

File: 4075

Last edit: 05/21/14 11:33 am

Changes proposed by: lahne

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested	Fall 2014
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6099
Title	

In Workflow

1. **RPSYCHOL 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. Peoplesoft

Approval Path

1. 04/17/14 6:36 pm
nstone: Approved
for RPSYCHOL
Chair

2. 04/18/14 8:07 am
kleb6b: Approved
for CCC Secretary

3. 04/23/14 8:45 am
barryf: Approved
for Social

Sciences DSCC

Chair

4. 04/30/14 2:30 pm

kleb6b: Approved

for Pending CCC

Agenda post

Research

Abbreviated Research
Course Title

Catalog

Description

Investigations of an advanced nature leading to the preparation of a thesis or dissertation.

Prerequisites

Consent of instructor required.

Field Trip

Statement

Credit Hours LEC: 0 LAB: 0 IND: 0-6 RSD: 0

Total: 0-6

Required for No

Majors

Elective for No

Majors

Justification for

new course:

Department request (Master of Science in Industrial-Organizational Psychology)

Semesters

previously

offered as an

experimental

course

none

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4075

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/23/14 3:50 pm

Viewing: **PSYCH 6210 : Advanced Research**

Methods

File: 4083

Last edit: 04/23/14 3:50 pm

Changes proposed by: lahne

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested	Fall 2014
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6210
Title	

In Workflow

1. **RPSYCHOL 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. Peoplesoft

Approval Path

1. 04/23/14 6:23 pm
nstone: Approved
for RPSYCHOL
Chair
2. 04/24/14 7:44 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 8:57 am
barryf: Approved
for Social

Sciences DSCC
Chair

Advanced Research Methods

Abbreviated Adv Research Methods
Course Title

Catalog

Description

Advanced techniques class, including advanced analysis of variance, multiple regression, multiple and partial correlation, analysis of covariance and the examination of some quasi-research designs.

Prerequisites

Graduate standing.

Field Trip

Statement

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

Required for Majors	Yes
------------------------	-----

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

Justification for new course:

Required for the MS-I/O Psychology degree program.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4083

Course Inventory Change Request

New Course Proposal

Date Submitted: 04/23/14 3:46 pm

Viewing: **PSYCH 6702 : Personnel Selection**

File: 4081

Last edit: 04/23/14 3:46 pm

Changes proposed by: lahne

Programs
referencing this
course

[INORGPS-MS: Industrial Organizational Psychology MS](#)

Requested	Fall 2014
Effective Change Date	
Department	Psychological Science
Discipline	Psychology (PSYCH)
Course Number	6702
Title	

In Workflow

1. **RPSYCHOL 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. Peoplesoft

Approval Path

1. 04/23/14 6:25 pm
nstone: Approved
for RPSYCHOL
Chair
2. 04/24/14 7:44 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 8:57 am
barryf: Approved
for Social

Sciences DSCC
Chair

Personnel Selection

Abbreviated Personnel Selection
Course Title

Catalog

Description

Developing and using assessment tools for personnel selection, classification, and promotion; measuring the impact of cultural variables on test performance; early identification of managerial potential; and emphasis on alternatives to cognitive abilities testing, including physical fitness and personality assessment.

Prerequisites

Graduate standing.

Field Trip

Statement

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

Total: 3

Required for	Yes
--------------	-----

Majors

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

Majors

Justification for

new course:

Required for the the MS-I/O Psychology degree program.

Semesters

previously

offered as an

experimental

course

none

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4081

Course Inventory Change Request

Date Submitted: 04/08/14 12:58 pm

Viewing: **RUSSIAN 1101 : Elementary Russian I**

File: 1697.1

Last edit: 04/08/14 12:58 pm

Changes proposed by: lahne

Other Courses
referencing this
course

In The Catalog Description:

[RUSSIAN 1102 : Elementary Russian II](#)

In The Prerequisites:

[RUSSIAN 1102 : Elementary Russian II](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Russian (RUSSIAN)
Course Number	1101
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. Peoplesoft

Approval Path

1. 04/08/14 1:17 pm
lance: Approved for RPHILOSO Chair
2. 04/08/14 1:46 pm
kleb6b: Approved for CCC Secretary
3. 04/08/14 1:51 pm
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Elementary Russian I

Abbreviated Course Title Elementary Russian I

Catalog

Description

Introduction to reading, conversation, and grammar. ~~Laboratory required (one extra hour per week).~~

Prerequisites

Entrance requirements.

Field Trip

Statement

Credit Hours	LEC: 4	LAB: 0	IND: 0	RSD: 0
Total: 4				

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

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

Justification for change:

The course description will be uniformed for all FL 1101 classes.

Semesters

previously offered as an experimental course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1697

Course Inventory Change Request

Date Submitted: 04/23/14 9:12 am

Viewing: **SP&M S 3270 : Leadership Practices**

File: 1898.1

Last edit: 05/22/14 7:54 am

Changes proposed by: denises

Programs
referencing this
course

[L COMM-MI: Leadership Communication Minor](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Speech & Media Studies (SP&M S)
Course Number	3270
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. Peoplesoft

Approval Path

1. 04/23/14 9:32 am
lance: Approved for RPHILOSO Chair
2. 04/23/14 1:18 pm
kleb6b: Approved for CCC Secretary
3. 04/23/14 1:28 pm
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

4. 04/30/14 2:32 pm
kleb6b: Approved
for Pending CCC
Agenda post

Leadership Practices

Abbreviated Leadership Practices
Course Title

Catalog

Description

This course provides opportunities for students to do qualitative and quantitative research in leadership, small group, and organizational **communication.**
~~communication associated with activities in the Oral Communication Center.~~

Prerequisites

SP&M S 5265. ~~Sp&M S 5265 or 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:

Speech Communication Center no longer involved in this course

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1898

Course Inventory Change Request

Date Submitted: 04/08/14 12:57 pm

Viewing: **SPANISH 1101 : Elementary Spanish I**

File: 2528.1

Last edit: 04/08/14 12:57 pm

Changes proposed by: lahne

Other Courses
referencing this
course

In The Catalog Description:

[SPANISH 1102 : Elementary Spanish II](#)

In The Prerequisites:

[SPANISH 1102 : Elementary Spanish II](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Spanish (SPANISH)
Course Number	1101
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. Peoplesoft

Approval Path

1. 04/08/14 1:17 pm
lance: Approved for RPHILOSO Chair
2. 04/08/14 1:46 pm
kleb6b: Approved for CCC Secretary
3. 04/08/14 1:52 pm
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Elementary Spanish I

Abbreviated Course Title Elementary Spanish I

Catalog

Description

Introduction to Spanish. Oral drills, readings, grammar and composition. ~~Laboratory required (one extra hour per week).~~

Prerequisites

Entrance requirements.

Field Trip

Statement

Credit Hours	LEC: 4	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 4

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

Majors

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

Majors

Justification for change:

The course description will be uniformed for all FL 1101 classes.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2528

Course Inventory Change Request

Date Submitted: 04/23/14 3:24 pm

Viewing: **SPANISH 2110 : Basic Spanish**

Conversation

File: 1573.1

Last edit: 04/23/14 3:24 pm

Changes proposed by: lahne

Programs

referencing this
course

[MUL&DIV-MI: Multiculture & Diversity Minor](#)

Other Courses

referencing this
course

In The Prerequisites:

[SPANISH 4311 : Advanced Spanish Conversation](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Spanish (SPANISH)
Course Number	2110
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. Peoplesoft

Approval Path

1. 04/23/14 4:31 pm
lance: Approved for RPHILOSO Chair
2. 04/24/14 7:44 am
kleb6b: Approved for CCC Secretary
3. 04/24/14 9:15 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Basic Spanish Conversation

Abbreviated Course Title Basic Spanish Conversation

Catalog

Description

Spanish conversation and oral practice.

Prerequisites

Spanish **1180** ~~1102~~.

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 2

Required for Majors No

Elective for Majors No

Justification for change:

Knowledge of grammar taught in Spanish 1180 needed.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1573

Course Inventory Change Request

Date Submitted: 04/23/14 2:06 pm

Viewing: **SPANISH 4311 : Advanced Spanish Conversation**

File: 1563.1

Last edit: 04/23/14 2:06 pm

Changes proposed by: denises

Programs
referencing this
course

[MUL&DIV-MI: Multiculture & Diversity Minor](#)

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Spanish (SPANISH)
Course Number	4311

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. Peoplesoft

Approval Path

1. 04/23/14 4:31 pm
lance: Approved for RPHILOSO Chair
2. 04/24/14 7:45 am
kleb6b: Approved for CCC Secretary
3. 04/24/14 9:16 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Advanced Spanish Conversation

Abbreviated Course Title Adv Span Conversation

Catalog

Description

Advanced Spanish conversation and oral practice.

Prerequisites

Spanish **1180** ~~2110~~.

Field Trip

Statement

Credit Hours	LEC: 2	LAB: 0	IND: 0	RSD: 0
--------------	--------	--------	--------	--------

Total: 2

Required for Majors No

Majors

Elective for Majors No

Majors

Justification for

change:

In order to enroll in Advanced Conversation (4311), students need to have completed the study of Spanish grammar. This is the objective of Spanish 1180.

However, students do not need take Spanish 2110 in order to take 4311. (In fact, for the last three years Spanish 4311 have been offered whereas Spanish 2110 has not been offered since 2008 without consequences.)

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1563

Course Inventory Change Request

Date Submitted: 04/23/14 8:19 pm

Viewing: **TCH COM 3010 : Seminar**

File: 1313.1

Last edit: 04/23/14 8:19 pm

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

Requested	Fall 2014
Effective Change Date	
Department	English and Technical Communication
Discipline	Technical Communication (TCH COM)
Course Number	3010
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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:45 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:17 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Seminar

Abbreviated Seminar
Course Title

Catalog

Description

Discussion of current topics.

Prerequisites

One semester of college composition or technical writing. ~~TCH COM 1600 and TCH COM 2540.~~

Field Trip

Statement

Credit Hours	LEC: 0	LAB: 0	IND: 0	RSD: 0
Total: 0-6				

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

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

Justification for
change:

Prerequisite changed for program consistency.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1313

Course Inventory Change Request

Date Submitted: 04/23/14 8:21 pm

Viewing: **TCH COM 3440 : Theory of Visual
Technical Communication**

File: 2231.1

Last edit: 05/22/14 7:58 am

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

Requested Fall 2014

Effective Change

Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 3440

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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:45 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:17 am
ivliyeva:

Approved for Arts
& Humanities

DSCC Chair

4. 04/30/14 2:34 pm

kleb6b: Approved
for Pending CCC

Agenda post

Theory of Visual Technical Communication

Abbreviated Visual Tech Com
Course Title

Catalog

Description

A study of the relationships between visual and conceptual elements of technical communication.

Prerequisites

TCH COM 1600 **or ENGLISH 1600**; ~~and~~ TCH COM 2540 **or ENGLISH** ~~or English 1600~~
~~and English 2540~~.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for

change:

Fixed so it made logical sense.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2231

Course Inventory Change Request

Date Submitted: 04/23/14 8:25 pm

Viewing: **TCH COM 4410 : Theory and Practice of Technical Communication**

File: 1807.1

Last edit: 05/22/14 7:59 am

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

Requested Fall 2014

Effective Change

Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 4410

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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:45 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:17 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

4. 04/30/14 2:34 pm
kleb6b: Approved
for Pending CCC
Agenda post

Theory and Practice of Technical Communication

Abbreviated Tech Com Theory & Prac
Course Title

Catalog

Description

This capstone course enables the student to work on individual and group projects that put into play the theories and practices of technical communication. Students are expected to develop professional portfolios.

Prerequisites

Senior **Status**; ~~Status and~~ TCH COM 1600 **or ENGLISH 1600**; ~~and~~ TCH COM 2540 **or ENGLISH** ~~or English 1600 and English~~ 2540.

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for No
Majors

Justification for

change:

Changed to make logical sense.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1807

Course Inventory Change Request

Date Submitted: 04/23/14 8:27 pm

Viewing: **TCH COM 4450 : International Dimensions of Technical Communication**

File: 1937.1

Last edit: 04/23/14 8:27 pm

Changes proposed by: kswenson

Other Courses
referencing this
course

In The Catalog Description:

[TCH COM 5450 : Advanced International Technical Communication](#)

Requested Fall 2014

Effective Change

Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 4450

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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:46 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:18 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

International Dimensions of Technical Communication

Abbreviated Course Title	Intl Dimensions of Tech Comm
-----------------------------	---------------------------------

Catalog

Description

Examines complexity of communication of technical information worldwide. Includes topics such as graphics, icons, symbols; user interface design; intercultural communication. Students may not earn credit for both TCH COM 4450 and TCH COM 5450. ▯

Prerequisites

One semester of college composition or technical writing. ~~TCH COM 1600 or English 1600, or equivalent.~~

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:

Changed prerequisite for program consistency.

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1937

Course Inventory Change Request

Date Submitted: 04/23/14 8:28 pm

Viewing: **TCH COM 4520 : Help Authoring**

File: 1362.1

Last edit: 04/23/14 8:28 pm

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-MS: Technical Communication MS](#)

Requested	Fall 2014
Effective Change Date	
Department	English and Technical Communication
Discipline	Technical Communication (TCH COM)
Course Number	4520
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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:46 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:18 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Help Authoring

Abbreviated Help Authoring
Course Title

Catalog

Description

Students will acquire the technological and rhetorical skills necessary for creating effective online help systems, including context-sensitive help for computer applications.

Prerequisites

One semester of college **composition writing** or technical **writing, or graduate standing. writing.**

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:

Change for program consistency.

Semesters

previously
offered as an
experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1362

Course Inventory Change Request

Date Submitted: 04/23/14 8:32 pm

Viewing: **TCH COM 5010 : Seminar**

File: 1484.1

Last edit: 04/23/14 8:32 pm

Changes proposed by: kswenson

Requested	Fall 2014
Effective Change Date	
Department	English and Technical Communication
Discipline	Technical Communication (TCH COM)
Course Number	5010
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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:46 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Seminar

Abbreviated Seminar
Course Title

Catalog

Description

Discussion of current topics.

Prerequisites

One semester of college composition or technical writing, or graduate standing.

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 0

IND: 0

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Program consistency.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1484

Course Inventory Change Request

Date Submitted: 04/23/14 8:32 pm

Viewing: **TCH COM 5510 : Technical Editing**

File: 1753.1

Last edit: 04/23/14 8:32 pm

Changes proposed by: kswenson

Catalog Pages
referencing this
course

[Technical Communication](#)

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

[TCH COM-MS: Technical Communication MS](#)

Requested Fall 2014
Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5510

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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:46 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Technical Editing

Abbreviated Technical Editing
Course Title

Catalog

Description

The principles and practices of technical editing, including usability, audience analysis, contextual editing, the conventions of scientific and technical communication, and the role of the editor in document development and publication. Students will also learn standard practices of copy editing and the use of style guides.

Prerequisites

One semester of college composition or technical writing, or graduate standing.

~~TCH COM 1600 or English 1600, or equivalent.~~

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:

Program consistency.

Semesters
previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1753

Course Inventory Change Request

Date Submitted: 04/23/14 8:33 pm

Viewing: **TCH COM 5530 : Usability Studies**

File: 715.1

Last edit: 04/23/14 8:33 pm

Changes proposed by: kswenson

Catalog Pages
referencing this
course

[Technical Communication](#)

Programs
referencing this
course

[TCH COM-MS: Technical Communication MS](#)

Requested Fall 2014
Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5530

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. Peoplesoft

Approval Path

1. 04/23/14 8:43 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:46 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Usability Studies

Abbreviated Usability Studies
Course Title

Catalog

Description

Students in this course will study and apply methods used by technical communicators to evaluate usability. Students will study methods used to evaluate human interaction with communication tools and how to make those products more suitable for human use.

Prerequisites

One semester of college **composition writing** or technical **writing, or graduate standing. writing.**

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for
change:

Program consistency.

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 715

Course Inventory Change Request

Date Submitted: 04/23/14 8:36 pm

Viewing: **TCH COM 5550 : Advanced Proposal Writing**

File: 2098.1

Last edit: 05/22/14 8:02 am

Changes proposed by: kswenson

Catalog Pages
referencing this
course

[Technical Communication](#)

Programs
referencing this
course

[TCH COM-MS: Technical Communication MS](#)

Requested Fall 2014
Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5550

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. Peoplesoft

Approval Path

1. 04/23/14 8:44 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:46 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

4. 04/30/14 2:36 pm
kleb6b: Approved
for Pending CCC
Agenda post

Advanced Proposal Writing

Abbreviated Course Title Advanced Proposal Writing

Catalog

Description

Familiarizes graduate students with many aspects of writing proposals for various purposes in academic, professional, and public spheres. Offers opportunities to write documents to promote their academic, professional, or personal goals or those of their organization(s). **Credit will not be given for for both TCH COM 4550 and TCH COM 5550.**

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:

Dealing with dual credit courses.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2098

Course Inventory Change Request

Date Submitted: 04/23/14 8:36 pm

Viewing: **TCH COM 5560 : Web-Based Communication**

File: 817.1

Last edit: 04/23/14 8:36 pm

Changes proposed by: kswenson

Catalog Pages
referencing this
course

[Technical Communication](#)

Programs
referencing this
course

[TCH COM-MS: Technical Communication MS](#)

Requested Fall 2014
Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5560

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. Peoplesoft

Approval Path

1. 04/23/14 8:44 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:47 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Web-Based Communication

Abbreviated Course Title Web-Based Communication

Catalog

Description

Covers such topics as advanced writing and editing for the web; the creation of rhetorically effective websites; the use of blogs, wikis, and other web genres to communicate technical information.

Prerequisites

One semester of college composition or technical writing, or graduate standing.

Field Trip

Statement

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

Total: 3

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

Majors

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

Majors

Justification for
change:

Program consistency.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 817

Course Inventory Change Request

Date Submitted: 04/23/14 8:37 pm

Viewing: **TCH COM 5610 : History of Technical Communication**

File: 1198.1

Last edit: 04/23/14 8:37 pm

Changes proposed by: kswenson

Catalog Pages
referencing this
course

[Political Science](#)

Programs
referencing this
course

[SCTCPL-MI: Science, Tech,& Politics Minor](#)

[TCH COM-BS: Technical Communication BS](#)

[TCH COM-MS: Technical Communication MS](#)

Requested Fall 2014

Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5610

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. Peoplesoft

Approval Path

1. 04/23/14 8:44 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:47 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

History of Technical Communication

Abbreviated Tech Comm History
Course Title

Catalog

Description

Introduction to the roles of the technical communicator and the technologies of communication from ancient cultures to the present.

Prerequisites

One semester of college composition or technical writing, or graduate standing.
~~TCH COM 1600 or English 1600, or equivalent.~~

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:

Program consistency

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1198

Course Inventory Change Request

Date Submitted: 04/23/14 8:38 pm

Viewing: **TCH COM 5620 : Research Methods in Technical Communication**

File: 1402.1

Last edit: 04/23/14 8:38 pm

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

[TCH COM-MS: Technical Communication MS](#)

Requested Fall 2014

Effective Change

Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5620

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. Peoplesoft

Approval Path

1. 04/23/14 8:44 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 7:47 am
kleb6b: Approved
for CCC Secretary
3. 04/24/14 9:19 am
ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

Research Methods in Technical Communication

Abbreviated Tech Comm Research
Course Title

Catalog

Description

Students learn essential research methods in technical communication, including audience analysis, interviewing techniques, working with subject matter experts, and experimental research design.

Prerequisites

One semester of college composition or technical writing, or graduate standing.

~~TCH COM 1600 AND TCH COM 2540 or English 1600 and English 2540.~~

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:

Program consistency.

Semesters

previously
offered as an
experimental

course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1402

Program Change Request

Date Submitted: 03/06/14 11:50 am

Viewing: **AP MATH-MS : Applied Mathematics MS**

File: 7.6

Last approved: 03/06/14 11:00 am

Last edit: 04/16/14 10:46 am

Changes proposed by: imorgan

Catalog Pages

Using this

Program

[Mathematics and Statistics](#)

Start Term	8/1/2014 8/15/2014
Program Code	AP MATH-MS
Department	Mathematics & Statistics
Title	

In Workflow

1. **RMATHEMA 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

Approval Path

1. 03/06/14 11:53 am
sclark: Approved for RMATHEMA Chair
2. 03/11/14 10:12 am
kleb6b: Approved for CCC Secretary
3. 03/22/14 1:00 pm
tauritzd: Approved for Sciences DSCC Chair

History

1. Sep 12, 2013 by pantaleoa
2. Mar 6, 2014 by imorgan

Applied Mathematics MS

Program Requirements and Description

The program for the M.S. degree without a thesis must include at least 33 hours of graduate credit, nine hours of which must be lecture courses at the 6000-level. For the M.S. degree with thesis, the program must include at least 30 hours of graduate credit, at

least six hours of which must be lecture courses at the 6000-level and six or more hours of which must be Graduate Research, **MATH 5099** ~~MATH 6099~~ or **STAT 5099** ~~STAT 6099~~. Candidates in a non-thesis program must pass a final comprehensive examination while candidates in a thesis program must pass an oral thesis defense. All M.S. candidates are encouraged to include in their program courses in engineering and science which are closely related to their research in Mathematics or Statistics. For those intending to terminate study at the M.S. level, specializations supporting specific career goals are possible.

Justification for request

We have recently clarified the role of 5099 as opposed to 6099. The 6099 designation is only for doctoral research.

Supporting Documents

Course Reviewer Comments

Key: 7

Program Change Request

Date Submitted: 02/03/14 4:58 pm

Viewing: **BIO SC-BA : Biological Sciences BA**

File: 146.1

Last edit: 04/30/14 2:04 pm

Changes proposed by: shannonk

Catalog Pages

Using this

Program

[Biological Sciences](#)

Start Term	8/1/2014
Program Code	BIO SC-BA
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

Approval Path

1. 02/18/14 11:03 am
aronstam: Approved for RBIOLSCI Chair
2. 03/19/14 3:18 pm
kleb6b: Approved for CCC Secretary
3. 04/10/14 6:38 pm
tauritzd: Approved for Sciences DSCC Chair
4. 04/24/14 4:45 pm
lahne: Rollback to Sciences DSCC Chair for Pending CCC Agenda post
5. 05/01/14 1:24 pm
tauritzd: Approved for Sciences DSCC Chair

Biological Sciences BA

Program Requirements and Description

Bachelor of Arts

Biological Sciences Degree Requirements

Specific requirements for the B.A. degree in biological sciences include a minimum of 120 semester hours of credit, including 30 hours of biology core courses.

Core Courses		
BIO SCI 1201	Introduction To Biological Science	1
BIO SCI 1113	General Biology	3
or BIO SCI 1213	Principles of Biology	
BIO SCI 1219	General Biology Lab	2
BIO SCI 1223	Biodiversity	3
BIO SCI 1229	Biodiversity Lab	1
BIO SCI 2213	Cell Biology	3
BIO SCI 2219	Cell Biology Laboratory	1
BIO SCI 2223	General Genetics	3
BIO SCI 2263	Ecology	3
BIO SCI 4010	Seminar	1
Advanced courses, 2000 level or higher (at least one with laboratory and one 3000 or 4000 level)		9
Chemistry		
CHEM 1310 & CHEM 1319 & CHEM 1320 & CHEM 1100	General Chemistry and General Chemistry Laboratory and General Chemistry and Introduction To Laboratory Safety & Hazardous Materials	9
CHEM 2210 & CHEM 2220	Organic Chemistry I and Organic Chemistry II	8
Mathematics & Physical Science		
Various courses in mathematics, physics, and/or geology chosen in consultation with academic advisor. (Note: Proficiency in College Algebra must be demonstrated by a grade of "C" or better in a College Algebra course or by examination)		9
Computer Science/Statistics (Select one of the following:)		3-4
COMP SCI 1570 & COMP SCI 1580	Introduction To Programming and Introduction To Programming Laboratory	
or COMP SCI 1971 & COMP SCI 1981	Introduction To Programming Methodology and Programming Methodology Laboratory	
STAT 4115	Statistics For The Social Sciences-I	3
STAT 3111	Statistical Tools For Decision Making	
STAT 5425	Introduction to Biostatistics	
General Requirements for BA		
English Composition		6
ENGLISH 1120	Exposition And Argumentation	

One additional composition course	
Western Civilizations	6
HISTORY 1100	Early Western Civilization
HISTORY 1200	Modern Western Civilization
Foreign Language (three semesters of a foreign language)	12
Humanities (including one class in each of literature, philosophy, and fine arts)	12
Social Sciences (including classes in two of the following three subjects: economics, political science, psychology)	12

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 120 credit hours.

Bachelor of Arts Biological Sciences Pre-Medicine Emphasis Area Degree Requirements

The student will fulfill the requirements for a Bachelor of Arts in Biological Sciences as outlined above. The following classes are also required:

CHEM 2219 & CHEM 2229	Organic Chemistry I Lab and Organic Chemistry II Lab	2
Select 2 semesters of College (General) Physics and labs from the following:		
2 semesters of Physics and labs:		8-10
PHYSICS 1145 & PHYSICS 1119	College Physics I and General Physics Laboratory	
or PHYSICS 1111 & PHYSICS 1119	General Physics I and General Physics Laboratory	
PHYSICS 1111 —& PHYSICS 1119	General Physics I —and General Physics Laboratory	5
PHYSICS 2111 —& PHYSICS 2119	General Physics II —and General Physics Laboratory	5
PHYSICS 2145 & PHYSICS 2119	College Physics II and General Physics Laboratory	
or PHYSICS 2111 & PHYSICS 2119	General Physics II and General Physics Laboratory	

The following classes are highly recommended:

BIO SCI 241	Course BIO SCI 241 Not Found	5
BIO SCI 242 —& BIO SCI 243	Course BIO SCI 242 Not Found —and Course BIO SCI 243 Not Found	4
BIO SCI 3333	Human Anatomy and Physiology I	3
BIO SCI 3339	Human Anatomy Physiology I Lab	1

BIO SCI 3343	Human Anatomy and Physiology II	3
BIO SCI 3349	Human Anatomy and Physiology II Laboratory	1
CHEM 4610	General Biochemistry	3

Bachelor of Arts Biological Sciences Secondary Education Emphasis Area Degree Requirements

You may earn a B.A. Degree in Biological Sciences from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with this emphasis area. This program can be completed in four academic years, and student teaching is arranged with public schools within 30 miles of the Rolla campus.

Students interested in this emphasis area should consult with the advisor for Biological Sciences Education majors in the Biological Sciences Department.

In order to successfully complete this emphasis area, students must have at least a 22 ACT, maintain a cumulative GPA of at least 2.5, and attain at least a 2.5 GPA average for all biology courses. Current Missouri S&T or transfer students who wish to pursue this emphasis area must meet both these GPA requirements to be accepted into the program. Students must also meet all requirements listed under the Teacher Education Program in this catalog. Students who do not meet all the teacher certification requirements will not be eligible for the Secondary Education Emphasis Area, even if they have completed all required course work.

A degree in this emphasis area requires 131 credit hours. The required courses are provided below. A minimum grade of "C" is required by the department in all **biological sciences** ~~mathematics and statistics~~ courses counted toward this degree.

Humanities: 18 semester hours		
ENGLISH 1120	Exposition And Argumentation	3
ENGLISH 1160	Writing And Research	3
or ENGLISH 3560	Technical Writing	
SP&M S 1185	Principles Of Speech	3
At least one course in each of the following: Literature, Philosophy and Fine Arts		9
Social Sciences: 15 semester hours		
HISTORY 1100	Early Western Civilization	3
HISTORY 1200	Modern Western Civilization	3
HISTORY 2530	History Of Science	3
POL SCI 1200	American Government	3
PSYCH 1101	General Psychology	3
Mathematics/Physical Science: 9 semester hours		
MATH 1103	Fundamentals Of Algebra	3
PHYSICS 1145	College Physics I	3
GEOLOGY 1110	Physical And Environmental Geology	3
Computer Science/Statistics: 3 semester hours		

3 semester hours of Computer Science or Statistics		3
Chemistry: 17 semester hours		
CHEM 1310 & CHEM 1319 & CHEM 1320 & CHEM 1100	General Chemistry and General Chemistry Laboratory and General Chemistry and Introduction To Laboratory Safety & Hazardous Materials	9
CHEM 2210 & CHEM 2220	Organic Chemistry I and Organic Chemistry II	8
Biological Sciences: 27 semester hours		
BIO SCI 1201	Introduction To Biological Science	1
BIO SCI 1213 & BIO SCI 1219	Principles of Biology and General Biology Lab	5
BIO SCI 1223 & BIO SCI 1229	Biodiversity and Biodiversity Lab	4
BIO SCI 1173	Introduction to Environmental Sciences	3
BIO SCI 2213 & BIO SCI 2219	Cell Biology and Cell Biology Laboratory	4
BIO SCI 2223	General Genetics	3
BIO SCI 2233	Evolution	3
BIO SCI 2263	Ecology	3
BIO SCI 4010	Seminar	1
Education: 42 semester hours		
EDUC 1140	Course-EDUC-1140 Not Found	2
EDUC 1040	Perspectives In Education	2
EDUC 1104	Teacher Field Experience	2
EDUC 1164	Aiding Elementary, Middle And Secondary Schools	2
EDUC 1174	School Organization & Adm For Elementary & Secondary Teachers	2
EDUC 2216	Teaching Reading In Content Area	3
EDUC 2251	Historical Foundation Of American Education	3
EDUC 280	Course-EDUC-280 Not Found	6
EDUC 3280	Teaching Methods And Skills In The Content Areas	6
EDUC 4298	Student Teaching Seminar	1
EDUC 4299	Student Teaching	12
PSYCH 2300	Educational Psychology	3
PSYCH 3311	Psychological & Educational Development Of The Adolescent	3
PSYCH 4310	Psychology Of The Exceptional Child	3

Justification for

request

Replace STAT 115 with Biostatistics, STAT 325

Need to add Comp Sci 54 to Comp Sci 53 requirement, they are co-reqs

For Pre-Med emphasis, need to delete Bio Sci 241 (Anatomy, 5 hrs) and Bio Sci 242 and 243 (Human Physiology and lab 4 hrs), as these courses are no longer offered. Replace with BIO SCI 244, 245, 246, 247 (A & P I and II and labs, 8 hours total)

Supporting

Documents

Course Reviewer

Comments

tauritzd (01/30/14 1:53 pm): Rollback: Please update all 3-digit references to 4-digit references, address Comp Sci 54 being a required accompaniment to Comp Sci 53, and fix any other issues you have identified since submitting this form.

lahne (04/24/14 4:45 pm): Rollback: Please review again. BIO SCI requested additional changes on their catalog revision submission.

Biological Sciences Degree Requirements

A minimum of 130 credit hours is required for a Bachelor of Science degree in Biological Science.

A minimum grade of "C" is required for each Biological Science course used to fulfill the B.S. degree requirements.

These requirements for the B.S. degree are in addition to credit that is received for basic ROTC.

The Biological Science B.S. degree must include 46 semester hours of biological sciences course work, to include:

BIO SCI 1201	Introduction To Biological Science	1
BIO SCI 1113	General Biology	3
or BIO SCI 1213	Principles of Biology	
BIO SCI 1219	General Biology Lab	2
BIO SCI 1223	Biodiversity	3
BIO SCI 1229	Biodiversity Lab	1
BIO SCI 2213	Cell Biology	3
BIO SCI 2219	Cell Biology Laboratory	1
BIO SCI 2223	General Genetics	3
BIO SCI 2233	Evolution	3
BIO SCI 2263	Ecology	3
BIO SCI 4010	Seminar	1
Advanced biological sciences or approved course work in other departments for a total of 46 credit hours of biology-related classes to include at least one laboratory course from the following:		22
BIO SCI 3319	Microbiology Lab	
or BIO SCI 3339	Human Anatomy Physiology I Lab	
or BIO SCI 3349	Human Anatomy and Physiology II Laboratory	
or BIO SCI 4329	Molecular Genetics Laboratory	
22 semester hours of chemistry to include general chemistry		22
CHEM 1310 & CHEM 1319 & CHEM 1320 & CHEM 1100	General Chemistry and General Chemistry Laboratory and General Chemistry and Introduction To Laboratory Safety & Hazardous Materials	
CHEM 2210 & CHEM 2219 & CHEM 2220 & CHEM 2229	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	
CHEM 4610	General Biochemistry	
2 semesters of College (General) Physics and labs		8-10
PHYSICS 1145 & PHYSICS 1119	College Physics I and General Physics Laboratory	

or PHYSICS 1111 & PHYSICS 1119	General Physics I and General Physics Laboratory	
PHYSICS 2145 & PHYSICS 2119	College Physics II and General Physics Laboratory	
or PHYSICS 2111 & PHYSICS 2119	General Physics II and General Physics Laboratory	
Calculus		5 (4)
Math and Statistics		8-9
MATH 1208	Calculus With Analytic Geometry I	
or MATH 1214	Calculus For Engineers I	
or MATH 1212	Business Calculus	
STAT 5425	Introduction to Biostatistics	
12 semester hours of humanities, excluding foreign language, and to include:		12
ENGLISH 1120 & ENGLISH 1160	Exposition And Argumentation and Writing And Research (entering students will normally take ENGLISH 1120 either semester of the first year)	
9 hours of social sciences, to include		9
HISTORY 1200	Modern Western Civilization (or equivalent)	
or HISTORY 1300	American History To 1877	
or HISTORY 1310	American History Since 1877	
or POL SCI 1200	American Government	

Elective credits: In consultation with his or her advisor, each student will elect sufficient additional courses to complete a minimum of 130 credit hours.

Justification for
request

under Calculus, add "or MATH 12", also add new requirement for STAT 325
Introduction to Biostatistics

Supporting
Documents

Course Reviewer
Comments

lahne (01/09/14 9:59 am): Rollback: Please take a look at the program requirements to make sure I added STAT 325 in the correct place.

lahne (04/24/14 4:56 pm): Rollback: Please review again. BIO SCI made changes on their catalog revision submission.

Program Change Request

Date Submitted: 04/23/14 12:07 pm

Viewing: **CP ENG-MI : Computer Engineering Minor**

File: 25.1

Last edit: 04/23/14 12:07 pm

Changes proposed by: watkins

Catalog Pages

Using this

Program

[Computer Engineering](#)

Start Term	8/1/2014
Program Code	CP ENG-MI
Department	Electrical and Computer Engineering
Title	

Computer Engineering Minor

Program Requirements and Description

Minor Curriculum

A minor in Computer Engineering will require the following:

Pass the ELEC ENG Advancement Exam I (ELEC ENG 2100 final) with a "C" or better *

Pass the COMP ENG Advancement Exam (COMP ENG 2210 final) with a "C" or better **

A "C" or better in the following courses:

COMP ENG 3550

Course COMP ENG 3550 Not Found

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

Approval Path

1. 04/23/14 1:41 pm kte: Approved for RELECENG Chair
2. 04/24/14 3:27 pm kleb6b: Approved for CCC Secretary
3. 04/30/14 9:26 am sraper: Approved for Engineering DSCC Chair

COMP ENG 3550	Course COMP ENG 3550 Not Found	
or ELEC ENG 2200	Introduction to Electronic Devices	
COMP ENG 3150.TBD	Digital Systems Design	3
COMP ENG 3110.TBD	Course COMP ENG 3110.TBD Not Found	3
or ELEC ENG 2200	Introduction to Electronic Devices	
<u>COMP ENG 5410</u>	Digital Network Design	
or <u>COMP SCI 5600</u>	Computer Networks	
<p>Pass 3 hours of additional 4XXX-level or above COMP ENG or ELEC ENG or COMP SCI coursework with a "C" or better, excluding senior design, special problems, and undergraduate research. Transfer courses cannot be used to satisfy this requirement. The course choice for this requirement is subject to the approval of the minor advisor.</p>		

- * One opportunity will be given to pass the EL ENG Advancement Exam I if a student has prior course or experience in circuits. Otherwise, the student must pass ELEC ENG 2100.
- ** One opportunity will be given to pass the COMP ENG Advancement Exam if a student has prior course or experience in digital circuits. Otherwise, the student must pass COMP ENG 2210.

Justification for request

Supporting Documents

Course Reviewer Comments

Program Change Request

Date Submitted: 04/22/14 12:07 pm

Viewing: **CR ENG-BS : Ceramic Engineering
BS**

File: 149.14

Last approved: 04/22/14 12:05 pm

Last edit: 05/22/14 8:05 am

Changes proposed by: smiller

Catalog Pages

Using this

Program

[Ceramic Engineering](#)

Start Term	Fall 2014 8/1/2014
Program Code	CR ENG-BS
Department	Materials Science & Engineering
Title	

In Workflow

1. **RMATSENG 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

Approval Path

1. 04/22/14 12:09 pm
huebner: Approved for RMATSENG Chair
2. 04/24/14 3:27 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:22 am
sraper: Approved for Engineering DSCC Chair
4. 04/30/14 11:31 am
kleb6b: Approved for Pending CCC Agenda post

History

1. Oct 10, 2013 by lahne
2. Apr 22, 2014 by lahne

Ceramic Engineering BS

Program Requirements and Description

Bachelor of Science Ceramic Engineering

Entering freshmen desiring to study ceramic engineering will be admitted to the Freshman Engineering Program. They will be permitted to state a ceramic 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 Ceramic Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. A student must maintain an average of at least two grade points per credit hour in Ceramic Engineering.

Each student's program of study must contain a minimum of 18 credit hours of course work from the humanities and the social sciences areas and should be chosen according to the following rules:

1. All students are required to take one American history course and one economics course. 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](#) .
2. Of the remaining hours, ~~12 six~~ credit hours must be taken in humanities or social sciences from the approved list of Humanities and Social Science (HSS) courses posted on the Undergraduate Studies website (<http://ugs.mst.edu/>). Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000-level.
3. Special topics, special problems courses and honors seminars are allowed only by petition to and approval by the student's department chair.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	MET ENG 1210	3
CHEM 1310	4	MATH 1215	4
CHEM 1319	1	PHYSICS 1135	4
MATH 1214	4	H/SS Elective ¹	3
ENGLISH 1120	3	MECH ENG 1720	3
H/SS Elective ¹	3		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CER ENG 2110	3	CER ENG 2120	3
CER ENG 2210	2	CER ENG 2325	2
CER ENG 2315	2	CER ENG 3230	3
MATH 2222	4	MATH 3304 (or Statistics Elective) ³	3
PHYSICS 2135	4	H/SS Elective ¹	3
		CIV ENG 2200	3

	15		17
Junior Year			
First Semester	Credits	Second Semester	Credits
CER ENG 3315	2	CER ENG 3325	2
CER ENG 3220	3	CER ENG 3410	3
CIV ENG 2210	3	PHYSICS 2305	3
CER ENG 3210	3	H/SS Elective ¹	3
H/SS Elective ¹	3	Technical Elective ²	2
		Advanced Chemistry Elective ⁴	3
	14		16
Senior Year			
First Semester	Credits	Second Semester	Credits
CER ENG 4096	3	CER ENG 4097	3
CER ENG 4240	3	CER ENG 4220	4
CER ENG 4310	3	H/SS Elective ¹	3
CER ENG 4250	3	Statistics Elective ³	3
ENG MGT 1210	2	Technical Electives ²	3
Technical Elective ²	3		
	17		16
Total Credits: 128			

Note 1: Students may substitute [MATH 1208](#) and [MATH 1221](#) for [MATH 1214](#) and [MATH 1215](#) , respectively.

Note 2: Students may substitute [CHEM 1320](#) for [MET ENG 1210](#) .

¹	Eighteen hours of H/SS electives to be taken.
²	Technical electives must be selected from upper level engineering and science courses with the advisor's approval.
³	All Ceramic Engineering students must either take MATH 3304 and one statistics course (3000-level or higher) or an introductory statistics course (3000-level) plus an advanced statistics elective (ECON 2300 , ENG MGT 5410 , ENG MGT 5614 , ENG MGT 5713 , ENG MGT 5414 , ENG MGT 5714 , STAT 5346 , and STAT 5756).
⁴	All Ceramic Engineering students must select an advanced chemistry elective with the advisor's approval. The courses that can be considered are CHEM 2210 , CHEM 2310 , CHEM 3410 , CHEM 4310 , or CHEM 3420 .
⁵	All Ceramic Engineering students must select an advanced chemistry elective with the advisor's approval. The courses that can be considered are CHEM 2210, CHEM 2310, CHEM 3410, CHEM 4310, or CHEM 3420.

Specific Degree Requirements

1. Total number of hours required for a degree in Ceramic Engineering is 128.
2. The assumption is made that a student admitted in the department has completed 34 hours credit towards graduation. The academic program of students transferring from colleges outside Missouri S&T will be decided on a case-by-case basis.
3. The department requires a total of 18 credit hours of humanities and social science.

Justification for
request

Supporting
Documents

Course Reviewer
Comments

sraper (04/30/14 9:22 am): This edit was made based on a phone conversation with
Dr. Miller.

kleb6b (05/22/14 8:05 am): Update Footnotes

Key: 149

Program Change Request

Date Submitted: 02/04/14 2:56 pm

Viewing: **CV ENG-BS : Civil Engineering BS**

File: 152.4

Last approved: 09/27/13 3:02 pm

Last edit: 05/22/14 8:32 am

Changes proposed by: lahne

Catalog Pages

Using this

Program

[Civil Engineering](#)

Start Term **8/1/2014** ~~8/15/2014~~

Program Code CV ENG-BS

Department Civil, Architectural, and Environmental Engineering

Title

In Workflow

1. RCIVILEN 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

Approval Path

1. 03/13/14 9:25 am burken: Approved for RCIVILEN Chair
2. 03/19/14 3:18 pm kleb6b: Approved for CCC Secretary
3. 04/21/14 2:06 pm sraper: Approved for Engineering DSCC Chair
4. 04/30/14 11:31 am kleb6b: Approved for Pending CCC Agenda post

History

1. Sep 27, 2013 by lahne

Civil Engineering BS

Program Requirements and Description

Civil Engineering Bachelor of Science

Entering freshmen desiring to study Civil Engineering will be admitted to the Freshman Engineering Program. They will, however, be permitted, if they wish, to state a Civil 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 Civil Engineering a minimum of ~~129~~ ~~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. An average of at least two grade points per credit hour must also be attained in all courses taken in Civil 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~~ ~~ENGLISH 1120~~. The history course is to be selected from ~~HISTORY 1200~~ ~~HISTORY 1200~~, ~~HISTORY 1300~~ ~~HISTORY 1300~~, ~~HISTORY 1310~~ ~~HISTORY 1310~~, or ~~POL SCI 1200~~ ~~POL SCI 1200~~. The economics course may be either ~~ECON 1100~~ ~~ECON 1100~~ or ~~ECON 1200~~ ~~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 ~~2000-level~~ ~~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 ~~1180~~ ~~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 ~~4000-level~~ ~~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~~ ~~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 chair.

The Civil 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.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100 ²	1	MECH ENG 1720	3
CHEM 1310 & CHEM 1319	5	MATH 1215	4
MATH 1214	4	PHYSICS 1135	4
ENGLISH 1120	3	General Ed Elective ¹	3
General Ed Elective ¹	3	General Ed Elective ¹	3

	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CIV ENG 2401²	3	MECH ENG 2350	2
CIV ENG 2003²	2	STAT 3113	3
CIV ENG 2200²	3	GEO ENG 1150	3
MATH 2222	4	CIV ENG 2210²	3
PHYSICS 2135	4	CIV ENG 2211²	1
		MATH 3304	3
	16		15
Junior Year			
First Semester	Credits	Second Semester	Credits
ENG MGT 1210²	2	CIV ENG 3116²	3
CIV ENG 3201²	3	CIV ENG 3842²	3
CIV ENG 3715²	3	CIV ENG 3500²	3
CIV ENG 3330²	3	CIV ENG 3334²	4
CIV ENG 2601²	3	CIV ENG 3220²	3
General Ed Elective ¹	3		
	17		16
Senior Year			
First Semester	Credits	Second Semester	Credits
CIV ENG 4010²	1	CIV ENG 4097²	3
(2) CIV ENG Depth Electives ^{3,4}	6	CIV ENG Tech Elective ^{3,5}	3
CIV ENG 4448²	3	CIV ENG Depth Elective ^{3,4}	3
CIV ENG 3210²	3	General Ed Elective ¹	3
General Ed Elective ¹	3	CIV ENG Tech Elective ^{3,5}	3
	16		15
Total Credits: 128			

¹ All general education electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog. One general education elective must be from [ENGLISH 1160](#), [ENGLISH 3560](#), or [SP&M S 1185](#).

² A grade of 'C' or better required to satisfy graduation requirements.

³ A grade of 'C' or better may be required in CE technical and depth elective prerequisite courses. Refer to the Missouri S&T undergraduate catalog for this prerequisite information.

⁴ Choose depth electives using Guidelines for Depth and Technical Electives.

⁵ Choose technical electives using Guidelines for Depth and Technical Electives.

Note: All Civil Engineering students must take the Fundamentals of Engineering examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree; however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.

Guidelines for Depth and Technical Electives

Please consult the Department's Advising Center or your academic advisor for guidelines regarding the selection of depth and technical electives. A maximum total of 6 credit hours of independent study ([CIV ENG 5000](#) ~~CIV ENG 5000~~ or [CIV ENG 4099](#) ~~CIV ENG 4099~~) can be used as depth or technical electives in the B.S. Civil Engineering curriculum.

Course Listings by Area

Construction Engineering

CIV ENG 5442	Construction Planning and Scheduling Strategies	3
CIV ENG 5445	Construction Methods	3
CIV ENG 5446	Management Of Construction Costs	3
CIV ENG 5460	Green Engineering: Analysis of Constructed Facilities	3
CIV ENG 5449	Engineering and Construction Contract Specifications	3

Materials Engineering

CIV ENG 5112	Bituminous Materials	3
CIV ENG 5113	Composition And Properties Of Concrete	3
CIV ENG 5117	Asphalt Pavement Design	3

Environmental Engineering

CIV ENG 3615	Water And Wastewater Engineering	3
CIV ENG 5640	Environmental Law And Regulations	3
CIV ENG 5630	Remediation of Contaminated Groundwater and Soil	3
CIV ENG 5650	Public Health Engineering	3
CIV ENG 5670	Solid Waste Management	3
CIV ENG 5605	Environmental Systems Modeling	3
CIV ENG 5642	Sustainability, Population, Energy, Water, and Materials	3
CIV ENG 5665	Indoor Air Pollution	3
CIV ENG 5660	Introduction To Air Pollution	3
CIV ENG 5662	Air Pollution Control Methods	3
CIV ENG 5619	Environmental Engineering Design	3

Geotechnical Engineering

CIV ENG 4729	Foundation Engineering	3
CIV ENG 5744	Geosynthetics in Engineering	3
CIV ENG 5715	Intermediate Soil Mechanics	3
CIV ENG 5716	Geotechnical Earthquake Engineering	3
CIV ENG 5729	Foundation Engineering II	3
CIV ENG 5750	Transportation Applications of Geophysics	3

Water Resources Engineering

CIV ENG 5330	Unsteady Flow Hydraulics	3
CIV ENG 5331	Hydraulics Of Open Channels	3
CIV ENG 5335	Water Infrastructure Engineering	3
CIV ENG 5337	River Mechanics And Sediment Transport	3
CIV ENG 5338	Hydrologic Engineering	3

Structural Engineering

CIV ENG 5118	Smart Materials And Sensors	3
CIV ENG 5203	Applied Mechanics In Structural Engineering	3
CIV ENG 5260	Analysis And Design Of Wood Structures	3
CIV ENG 5207	Computer Methods of Structural Analysis	3
CIV ENG 5210	Advanced Steel Structures Design	3
CIV ENG 5220	Advanced Concrete Structures Design	3
CIV ENG 5222	Prestressed Concrete Design	3
CIV ENG 5231	Infrastructure Strengthening with Composites	3
CIV ENG 5206	Low-Rise Building Analysis and Design	3

Transportation Engineering

CIV ENG 5510	Geometric Design Of Highways	3
CIV ENG 5513	Traffic Engineering	3
CIV ENG 5250	Air Transportation	3

Justification for
request

added footnote 2 to all CIV ENG courses to require a "C" or better.

Supporting

Documents

Course Reviewer

Comments

lahne (05/22/14 8:32 am): Prior to CCC meeting on 5/19, department requested to withdraw proposal to "Increase total credit hours to 129 (by increasing the number of credit hours required for CIV ENG 3)".

Key: 152

Program Change Request

Date Submitted: 04/23/14 9:29 am

Viewing: **EL ENG-BS : Electrical Engineering
BS**

File: 155.1

Last edit: 05/22/14 11:24 am

Changes proposed by: watkins

Catalog Pages

Using this

Program

[Electrical Engineering](#)

Start Term	8/1/2014
Program Code	EL ENG-BS
Department	Electrical and Computer Engineering
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

Approval Path

1. 04/23/14 1:48 pm kte: Approved for RELECENG Chair
2. 04/24/14 3:27 pm kleb6b: Approved for CCC Secretary
3. 04/30/14 9:19 am sraper: Approved for Engineering DSCC Chair
4. 04/30/14 11:31 am kleb6b: Approved for Pending CCC Agenda post

Electrical Engineering BS

Program Requirements and Description

Bachelor of Science Electrical Engineering¹

Entering freshmen desiring to study Electrical Engineering will be admitted to the Freshman Engineering Program. They will be permitted to state a Electrical 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 Electrical 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 Electrical 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 or social sciences course, and **ENGLISH 1120** ~~ENGLISH 1120~~. The history course is to be selected from **HISTORY 1200** ~~HISTORY 1200~~, **HISTORY 1300** ~~HISTORY 1300~~, **HISTORY 1310** ~~HISTORY 1310~~, or **POL SCI 1200** ~~POL SCI 1200~~. The economics course may be either **ECON 1100** ~~ECON 1100~~ or **ECON 1200** ~~ECON 1200~~. The humanities or social sciences 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 **2000-level** ~~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 **1180** ~~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 **4000-level** ~~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** ~~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 Electrical 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:

Students are required to take five hours of free electives in consultation with their 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
<u>FR ENG 1100</u> ²	1	<u>MECH ENG 1720</u>	3
<u>CHEM 1310</u>	4	<u>MATH 1215</u> ³	4
<u>CHEM 1319</u>	1	<u>PHYSICS 1135</u> ^{3,4}	4
<u>MATH 1214</u> ³	4	<u>ECON 1100</u> or <u>1200</u>	3
<u>HISTORY 1200</u> , or <u>1300</u> , or <u>1310</u> , or <u>POL SCI 1200</u>	3	Elective-Hum or Soc Sci (any level) ⁵	3
<u>ENGLISH 1120</u>	3		
	16		17
Sophomore Year			

First Semester	Credits	Second Semester	Credits
ELEC ENG 2100 ^{3,6,7}	3	ELEC ENG 2200 ^{3,6,7,10}	3
ELEC ENG 2101 ^{3,6}	1	ELEC ENG 2201 ^{3,6,7}	1
MATH 2222 ³	4	ELEC ENG 2120 ^{3,7,9}	3
COMP ENG 2210 ^{3,6,8}	3	MATH 3304 ³	3
COMP ENG 2211 ^{3,6}	1	Engineering Science Elective ¹¹	3
PHYSICS 2135 ^{3,4}	4	COMP SCI 1570	3
		COMP SCI 1580 ¹²	1
	16		17
Junior Year			
First Semester	Credits	Second Semester	Credits
ELEC ENG 3100 ^{3,6,9,10}	3	ELEC ENG 3600 ^{3,9}	4
ELEC ENG 3101 ^{3,6,9,10}	1	ELEC ENG 3410^{3,6,9}	3
ELEC ENG 3400^{3,6,9}	3	ELEC ENG 3411^{3,6,9}	4
ELEC ENG 3401^{3,6,9}	4	El Eng Elective A ^{10,14,19}	3
ELEC ENG 3320	3	ELEC ENG 3430.TBD	
ELEC ENG 3321.TBD		ELEC ENG 3431.TBD	
SP&M S 1185	3	STAT 3117 ¹²	3
MATH 3108	3	ENGLISH 3560 ¹³	3
	13		13
Senior Year			
First Semester	Credits	Second Semester	Credits
El Eng Power Elective ^{3,6,9,15}	3	El Eng Elective C ^{10,14}	3
El Eng Power Elective Lab ^{3,6,9,15}	1	El Eng Elective E ^{17,19}	3
El Eng Elective B ^{10,14}	3	ELEC ENG 4097	3
El Eng Elective D ^{10,16,19}	3	Elective-Hum or Soc Sci (upper level) ⁵	3
ELEC ENG 4096 ³	1	Free Elective ¹⁸	3
Free Elective ¹⁸	2		
Elective-Hum or Soc Sci (any level) ⁵	3		
	16		15
Total Credits: 123			

Note: Student must satisfy the common engineering freshman year requirements and be admitted into the department. See Freshman Engineering.

¹ The minimum number of hours required for a degree in Electrical Engineering is 128.

² Students that transfer after their freshman year are not required to enroll in [FR ENG 1100](#).

3	A minimum grade of "C" must be attained in MATH 1214 , MATH 1215 , MATH 2222 , and MATH 3304 , PHYSICS 1135 and PHYSICS 2135 (or their equivalents), ELEC ENG 2100 , ELEC ENG 2101 , ELEC ENG 2120 , ELEC ENG 2200 , ELEC ENG 2201 , ELEC ENG 3320 , ELEC ENG 3321 , ELEC ENG 3430 , ELEC ENG 3431 , ELEC ENG 3100 , ELEC ENG 3101 , and ELEC ENG 3600 , the ELEC ENG power elective (ELEC ENG 3500 and ELEC ENG 3501 or ELEC ENG 3540 and ELEC ENG 3541), ELEC ENG 4096 and COMP ENG 2210 and COMP ENG 2211 . Also, students may not enroll in other courses that use these courses as prerequisites until the minimum grade of "C" is attained.
4	Students may take PHYSICS 1111 and PHYSICS 1119 in place of PHYSICS 1135 . Students may take PHYSICS 2111 and PHYSICS 2119 in place of PHYSICS 2135 .
5	All electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
6	Students who drop a lecture course prior to the last week to drop a class must also drop the corequisite lab.
7	Students must earn a passing grade on the ELEC ENG Advancement Exam I (associated with ELEC ENG 2100) before they enroll in ELEC ENG 2120 or ELEC ENG 2200 and ELEC ENG 2201 .
8	Students must earn a passing grade on the COMP ENG Advancement Exam (associated with COMP ENG 2210) before they enroll in any course with COMP ENG 2210 and/or COMP ENG 2211 as prerequisites.
9	Students must earn a passing grade on the ELEC ENG Advancement Exam II (associated with ELEC ENG 2120) before they enroll in ELEC ENG 3500 , ELEC ENG 3540 , ELEC ENG 3501 , ELEC ENG 3541 , ELEC ENG 3320 , ELEC ENG 3321 , ELEC ENG 3430 , ELEC ENG 3431 , ELEC ENG 3100 , ELEC ENG 3101 , or ELEC ENG 3600 , or other courses with ELEC ENG 2120 as a prerequisite.
10	Students must earn a passing grade on the ELEC ENG Advancement Exam III (associated with ELEC ENG 2200) before they enroll in ELEC ENG 3100 and ELEC ENG 3101 or other courses with ELEC ENG 2200 as a prerequisite.
11	Students must take MECH ENG 2340 , MECH ENG 2519 , MECH ENG 2527 , PHYSICS 2305 , PHYSICS 2311 , PHYSICS 2401 , NUC ENG 3103 , CHEM 2210 , BIO SCI 2213 , or BIO SCI 2223 . The following pairs of course are substitutions: CIV ENG 2200 and MECH ENG 2350 or ENG MGT 2110 and ENG MGT 3310 .
12	Students may replace STAT 3117 with STAT 3115 or STAT 5643 . Students may replace COMP SCI 1580 with ELEC ENG 3001 Circuits and Systems Laboratory.
13	Students may replace ENGLISH 3560 with ENGLISH 1160 .
14	ELEC ENG Electives A, B, and C must be chosen from ELEC ENG 3500 , ELEC ENG 3540 , ELEC ENG 3410 , ELEC ENG 3250 , ELEC ENG 3340 , ELEC ENG 3440 , ELEC ENG 3120 , and COMP ENG 3150 .
15	The ELEC ENG Power Elective may be satisfied with ELEC ENG 3500 and ELEC ENG 3501 or ELEC ENG 3540 and ELEC ENG 3541 .
16	ELEC ENG Elective D must be a 4XXX-level or above ELEC ENG or COMP ENG course with at least a 3-hour lecture component. ELEC ENG 4000 , ELEC ENG 5000 , COMP ENG 4000 , COMP ENG 5000 , ELEC ENG 4099 , COMP ENG 4099 , ELEC ENG 4096 , COMP ENG 4096 , ELEC ENG 4097 , COMP ENG 4097 , ELEC ENG 5070 , COMP ENG 5070 , ELEC ENG 58XX , and COMP ENG 58XX may not be used for Elective D.
17	ELEC ENG Elective E may be any 3XXX-level or above ELEC ENG or COMP ENG course except ELEC ENG 3002 , ELEC ENG 38XX , ELEC ENG 4096 , ELEC ENG 4097 , and ELEC ENG 5070 and COMP ENG 3002 , COMP ENG 38XX , COMP ENG 4000 , COMP ENG 4099 , COMP ENG 4096 , COMP ENG 4097 , and COMP ENG 5070 .
18	Students are required to take five hours of free elective in consultation with their academic advisors. Credits that do not count toward this requirement are deficiency courses (such as algebra and trigonometry) and extra credits from courses

meeting other requirements. Any courses outside of engineering and science must be at least three credit hours. ELEC ENG 28XX, ELEC ENG 38XX,, [ELEC ENG 4096](#), [ELEC ENG 4097](#), COMP ENG 28XX, COMP ENG 38XX, [COMP ENG 4096](#) and [COMP ENG 4097](#) may not be used for free electives. No more than one credit hour of [ELEC ENG 3002](#) or [COMP ENG 3002](#) may be applied to the BS degree for free electives.

19 Students that pursue an optional degree emphasis area have restricted options for EI Eng Electives A, D, and E.

All Electrical Engineering students are encouraged to take the fundamentals of Engineering Examination prior to graduation. It is the first step toward becoming a registered professional engineer.

Emphasis Areas for Electrical Engineering

Circuits and Electronics, Communications and Signal Processing, Computer Engineering, Controls and Systems, Electromagnetics, Optics and Devices, Power and Energy

A declared emphasis area is not required. A student may choose to obtain an Electrical Engineering degree without a formal emphasis or may choose to obtain an Electrical Engineering degree with a declared emphasis in one or more of the emphasis areas of electrical engineering. A major change request is required to add the emphasis area option to the degree program.

For students who seek an Electrical Engineering degree without a formal emphasis, these emphasis areas may guide the choice of their ELEC ENG Electives A, B, C, D, and E as well as their free electives. Students should consult with their advisors on such course selections.

For students who seek an Electrical Engineering degree with a declared emphasis, courses in the declared emphasis area will be applied to ELEC ENG Electives A, D, and E in the degree requirements. For students who choose to have multiple emphasis areas, the additional courses will apply to ELEC ENG Elective B or C and free elective requirements. Students should seek guidance from their advisors on emphasis areas and on courses that are relevant to more than one emphasis area. Students may have an emphasis area or emphasis areas listed on their transcript by completing three three-credit-hour courses in electrical and computer engineering from the designated lists with at least one of the courses being at the **4XXX-level or above**. ~~3XX-level~~. This requirement will be satisfied by completing the relevant ABC Elective course, a **4XXX-level or above 3XX**-course for Elective D, and another **3XXX-level or above course 2XX or 3XX** for Elective E from the designated listing. The required ELEC ENG courses **ELEC ENG 3320, ELEC ENG 3430, [ELEC ENG 3100](#) ~~ELEC-ENG-3410~~, ~~ELEC-ENG-3400~~, ~~ELEC-ENG-3100~~**, and **[ELEC ENG 3600](#) ~~ELEC-ENG-3600~~** and the course used to satisfy the power requirement (**[ELEC ENG 3500](#) ~~ELEC-ENG-3500~~ or [ELEC ENG 3540](#) ~~ELEC-ENG-3540~~**) may not be used to meet the three course requirement. Transfer courses do not apply to emphasis areas. A co-listed course may count toward both areas. Experimental **courses [ELEC ENG 3001](#), [ELEC ENG 4001](#), [ELEC ENG 5001](#), [COMP ENG 3001](#), [COMP ENG 4001](#)**, ~~courses [ELEC-ENG-4001](#) or [COMP ENG 5001](#) ~~COMP-ENG-4001~~~~ require departmental approval to apply toward an emphasis area.

Circuits and Electronics		
ELEC ENG 3120	Electronics II	3
ELEC ENG 41XX and ELEC ENG 51XX Courses		
Communications and Signal Processing		
ELEC-ENG-3420	Communication Systems	
ELEC ENG 3410	Digital Signal Processing	3
ELEC ENG 3440.TBD	Course ELEC ENG 3440.TBD Not Found	
ELEC ENG 44XX and ELEC ENG 54XX Courses		

Computer Engineering		
ELEC ENG 3410, COMP ENG 3XXX-level or above Courses (Excluding COMP ENG 3000, COMP ENG 4000, COMP ENG 5000, COMP ENG 3002, COMP ENG 4096, COMP ENG 4097, and COMP ENG 5070) See the COMP ENG degree program for details on COMP ENG areas.		
Controls and Systems		
ELEC ENG 3320	Control Systems	
<u>ELEC ENG 3340</u>	Controllers For Factory Automation	3
ELEC ENG 43XX and ELEC ENG 53XX Courses		
Electromagnetics		
ELEC ENG 46XX and ELEC ENG 56XX Courses		
Optics and Devices		
<u>ELEC ENG 3250</u>	Electronic And Photonic Devices	3
ELEC ENG 42XX and ELEC ENG 52XX Courses		
Power and Energy		
<u>ELEC ENG 3500</u>	Electromechanics	3
<u>ELEC ENG 3540</u>	Power System Design And Analysis	3
<u>ELEC ENG 5150</u>	Photovoltaic Systems Engineering	3
<u>ELEC ENG 5520</u>	Power Electronics	3
ELEC ENG 30X Courses (Excluding ELEC ENG 3000, ELEC ENG 3001, ELEC ENG 3002, ELEC ENG 4000, and ELEC ENG 4001 Courses)		
<u>ELEC ENG 5521</u>	Power Electronics Laboratory	2
ELEC ENG 45XX and ELEC ENG 55XX Courses		

Justification for request

Curriculum revisions approve by ECE Faculty 11/21/2013 and 12/12/2013

See associated new courses for EE 3311, 3321, 3430, 3431, and 3440.

A Footnote 19 will be added to the catalog description with the following wording:

"Students that pursue an optional degree emphasis area have restricted options for ECE Eng Electives A, D, and E."

This footnote is for clarity only and does not change the degree requirements for the emphasis area options. Footnote 19 should be applied to Elective A, Elective D, and Elective E.

Approved by ECE Faculty Fall 2013

Supporting Documents

[dcformEE Footnote19.doc](#)

Course Reviewer

Comments

lahne (02/10/14 8:56 am): Rollback: .

kleb6b (02/17/14 3:13 pm): Rollback: Courses Elec Eng 219, 232, 241, 242, and 245 do not exist. New courses need to be numbered with 4-digit course numbers.

kte (02/17/14 3:16 pm): Rollback: Change course numbers to new 4-digit numbers.

sraper (04/21/14 2:12 pm): Rollback: Steve, Per our email, please look into those 35X type issues. I felt rolling it back to you and having you resubmit would be the cleanest thing to do.

kleb6b (05/22/14 8:44 am): Edit Footnote

kleb6b (05/22/14 11:24 am): Edit Footnote

Key: 155

Program Change Request

Date Submitted: 04/23/14 11:46 am

Viewing: **EL ENG-MI : Minor in Electrical Engineering**

File: 231.2

Last approved: 02/17/14 2:26 pm

Last edit: 05/22/14 8:45 am

Changes proposed by: watkins

Catalog Pages

Using this

Program

[Electrical Engineering](#)

Start Term	8/15/2013
Program Code	EL ENG-MI
Department	Electrical and Computer Engineering
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

Approval Path

1. 04/23/14 1:42 pm kte: Approved for RELECENG Chair
2. 04/24/14 3:28 pm kleb6b: Approved for CCC Secretary
3. 04/30/14 9:19 am sraper: Approved for Engineering DSCC Chair
4. 04/30/14 11:32 am kleb6b: Approved for Pending CCC Agenda post

History

1. Feb 17, 2014 by kleb6b
2. Feb 17, 2014 by kleb6b

Minor in Electrical Engineering

Program Requirements and Description

Minor ~~A minor~~ in Electrical Engineering

A minor in Electrical Engineering ~~will~~ ~~wil~~ require the following:

Pass the ELEC ENG Advancement Exam I (ELEC ENG 2100 final) with at "C" grade ~~"C"~~ or better *

Pass ELEC ENG 2120 and ELEC ENG Advancement Exam II with a "C" grade ~~"C"~~ or better

Pass 12 additional hours of ELEC ENG coursework excluding ELEC ENG ~~28XX, 38XX, 4096, 4097, 28X, 38X,~~ and ~~4099, 39X.~~ At least 3 lecture hours at the ~~4XXX-level or above~~ ~~3XX-level~~ are required. A "C" grade ~~"C"~~ or better is required for all 12 hours. No transfer courses and no more than 3 hours of ELEC ENG ~~3000, 3000-or~~ ELEC ENG ~~4000, or~~ ~~ELEC ENG 5000~~ ~~4000~~ may be used to meet the requirements. The course choice for the 12 additional hours are subject to the approval of the minor advisor.

*One opportunity will be given to pass the ELEC ENG Advancement Exam I if a student has prior circuit coursework or experience. Otherwise, the student must pass ~~ELEC ENG 2100.~~ ~~ELEC-ENG 151.~~

Justification for
request

Update to reflect course renumbering

Supporting
Documents

Course Reviewer
Comments

kleb6b (05/22/14 8:45 am): Clarification

Key: 231

Program Change Request

New Program Proposal

Date Submitted: 12/20/13 4:54 pm

Viewing: **EXP EN-PHD-: Explosives Engineering PhD**

File: 225

Last edit: 04/16/14 11:35 am

Changes proposed by: pworsey

Start Term	8/1/2014
Program Code	EXP EN-PHD
Department	Mining & Nuclear Engineering
Title	

In Workflow

1. **RMINNUCL 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

Approval Path

1. 12/31/13 12:01 pm
frimpong: Approved for RMINNUCL Chair
2. 01/29/14 11:54 am
kleb6b: Approved for CCC Secretary
3. 01/29/14 12:02 pm
lahne: Rollback to CCC Secretary for Engineering DSCC Chair
4. 03/11/14 10:13 am
kleb6b: Approved for CCC Secretary
5. 03/19/14 3:09 pm
kleb6b: Rollback to CCC Secretary for Engineering DSCC Chair
6. 04/16/14 11:37 am
lahne: Approved for CCC Secretary
7. 04/30/14 9:35 am
sraper: Approved for Engineering DSCC Chair

Explosives Engineering PhD

Program Requirements and Description

Ph.D. Degree Requirements

The Ph.D. degree requires a minimum of 3 years of full-time study beyond the bachelor's degree, including research work for the dissertation. Minimum requirements for Ph.D. candidates include completing 72 credit hours of graduate credit with at least 24 credit hours of dissertation research (Exp Eng 6099) and a minimum of 24 credit hours of coursework, with at least 15 credit hours of course work completed at Missouri S&T. Students are encouraged to enroll in at least 15 credit hours of 6000-level lecture courses and are required to pass the qualifying, comprehensive and final oral examinations for the Ph.D. research.

Justification for request

Program approved by CCC in January 2013, FS in February 2013 (DC#0434-2012-ExpEng-000-00).

CBHE approval received; Explosives Engineering PhD created in PeopleSoft as follows:

Academic Plan: EXP EN-PHD

CIP# 14.2101

Program# 2250 00 91 4143

Effective Date: 2/7/2014

Supporting Documents

Course Reviewer

Comments

lahne (01/29/14 12:02 pm): Rollback: .

kleb6b (03/19/14 3:09 pm): Rollback: Unintentional approval

Program Change Request

Date Submitted: 04/11/14 9:01 am

Viewing: **HIST-BA : History BA**

File: 157.1

Last edit: 05/22/14 8:46 am

Changes proposed by: lahne

Catalog Pages

Using this

Program

[History](#)

Start Term **8/1/2014**

Program Code HIST-BA

Department History and Political Science

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

Approval Path

1. 04/11/14 9:05 am
lragg: Approved
for RHISTORY
Chair
2. 04/16/14 11:05 am
lahne: Approved for
CCC Secretary
3. 04/17/14 12:21 pm
lahne: Rollback to
RHISTORY Chair
for Arts &
Humanities DSCC
Chair
4. 04/28/14 10:59 am
lahne: Approved for
RHISTORY Chair
5. 04/28/14 11:51 am
kleb6b: Approved
for CCC Secretary
6. 04/28/14 3:31 pm
ivliyeva: Approved
for Arts &
Humanities DSCC
Chair
7. 04/29/14 8:32 am
lahne: Rollback to
RHISTORY Chair
for Pending CCC

- Agenda post
8. 04/29/14 8:34 am
lragg: Approved
for RHISTORY
Chair
 9. 04/29/14 8:59 am
lahne: Approved for
CCC Secretary
 10. 04/29/14 9:25 am
ivliyeva: Approved
for Arts &
Humanities DSCC
Chair
 11. 04/30/14 2:13 pm
kleb6b: Approved
for Pending CCC
Agenda post

History BA

Program Requirements and Description

Bachelor of Arts History

(In addition to general requirements for Bachelor of Arts Degree.)

HISTORY 1790	Introduction to History	1
HISTORY 1300	American History To 1877	3
HISTORY 1310	American History Since 1877	3
HISTORY 2790	Historiography	3
2 American History Electives		6
2 European History Electives		6
2 History Electives		6
HISTORY 4010	Seminar	3
or HISTORY 4097	Senior Thesis	
Total Credits		31

Note: History majors are also required to complete [HISTORY 1100](#) and [HISTORY 1200](#) as ~~HISTORY 1100 and HISTORY 1200~~ -as part of the general education requirements for the B.A. In addition, 9 hours of the 31 major hours must be taken at the **3000 or 4000 level**. ~~300 level (no change in requirements)~~.

Note: Entering students will normally take [ENGLISH 1120](#) ~~ENGLISH 1120~~ either semester of the first year.

Secondary Education Emphasis Area

You may earn a B.A. Degree in History from Missouri S&T and certification to teach in the schools of Missouri. This program may be completed in four academic years and student teaching is arranged with public schools within 30 miles of the Rolla campus.

Students interested in the Certification Program should consult with the advisor for History/Education majors in the Department of History and Political Science for requirements particular to those interested in this degree. Students should process a change of major form to designate History with an emphasis area of Secondary Education.

History students must complete 124 credit hours, including the requirements of the Teacher Education Program listed in this catalog. A minimum grade of "C" is required by the department in all history and political science courses counted towards this degree. Students must take the following courses:

Communication Skills: 9 hours		
ENGLISH 1120	Exposition And Argumentation	3
ENGLISH 1160	Writing And Research	3
SP&M S 1185	Principles Of Speech	3
Humanities: 12 hours with at least one course from the first three areas		
Art or Music or Theater Appreciation		
Philosophy		
Literature		
Foreign Language		
ETYM 4306	Introduction To Etymology	3
Social Sciences: 15 hours		
POL SCI 1200	American Government	3
POL SCI 2760	Contemporary Political Thought	3
or POL SCI 2210	American Political Parties	
or POL SCI 3300	Principles Of Public Policy	
or POL SCI 3760	The American Presidency	
ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
PSYCH 1101	General Psychology	3
HISTORY 2110	World Regional Geography	3
Natural Sciences: 7 hours = 2 courses and 1 lab		
One course in Physics or Chemistry or Geology and one course in Biology		
One laboratory in any of the above science courses		
Mathematics: 3 hours		
MATH 1120	College Algebra (or higher)	3-5
or MATH 1103	Fundamentals Of Algebra	
or MATH 1140	College Algebra	

Clinical Experience: 16 hours		
EDUC 1104	Teacher Field Experience	2
EDUC 1164	Aiding Elementary, Middle And Secondary Schools	2
EDUC 4299	Student Teaching	12
Professional Requirements: 26 hours		
EDUC 1140	Course EDUC 1140 Not Found	2
EDUC 1040	Perspectives In Education	2
EDUC 1174	School Organization & Adm For Elementary & Secondary Teachers	2
EDUC 2216	Teaching Reading In Content Area	3
EDUC 2254	Historical Foundation Of American Education	3
EDUC 280	Course EDUC 280 Not Found	6
ENGLISH 3170	Teaching And Supervising Reading and Writing	3
EDUC 3280	Teaching Methods And Skills In The Content Areas	6
EDUC 4298	Student Teaching Seminar	1
PSYCH 2300	Educational Psychology	3
PSYCH 3311	Psychological & Educational Development Of The Adolescent	3
PSYCH 4310	Psychology Of The Exceptional Child	3
History Requirements: 37 hours		
HISTORY 1790	Introduction to History	1
HISTORY 1100	Early Western Civilization	3
HISTORY 1200	Modern Western Civilization	3
HISTORY 1300	American History To 1877	3
HISTORY 1310	American History Since 1877	3
HISTORY 2790	Historiography	3
HISTORY 4010	Seminar	3
or HISTORY 4097	Senior Thesis	
American History Electives		6
European History Electives		6
History Electives		6

Justification for
request

course renumbering; correct typo

Supporting
Documents

Course Reviewer

Comments

lahne (04/11/14 9:00 am): Rollback: .

lahne (04/17/14 12:21 pm): Rollback: EDUC 2251-Historical Foundation of American Education has been replaced by English 3170-Teaching and Supervising Reading and Writing per your email regarding the catalog update.

lahne (04/29/14 8:32 am): Rollback: After making a catalog revision, the approval path skipped over Dr Gragg.

kleb6b (05/22/14 8:46 am): Remove unnecessary information

Key: 157

Program Change Request

Date Submitted: 03/06/14 10:40 am

Viewing: **MATH-PHD : Mathematics PhD**

File: 85.3

Last approved: 09/12/13 2:33 pm

Last edit: 04/16/14 10:58 am

Changes proposed by: imorgan

Catalog Pages

Using this

Program

[Mathematics and Statistics](#)

Start Term **8/1/2014** ~~8/15/2013~~

Program Code MATH-PHD

Department Mathematics & Statistics

Title

In Workflow

1. **RMATHEMA 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

Approval Path

1. 03/06/14 11:14 am sclark: Approved for RMATHEMA Chair
2. 03/11/14 10:20 am kleb6b: Approved for CCC Secretary
3. 04/15/14 2:01 pm tauritzd: Approved for Sciences DSCC Chair

History

1. Sep 12, 2013 by pantaleoa

Mathematics PhD

Program Requirements and Description

A program for the Ph.D. degree includes about 30 hours of breadth in graduate level Mathematics and Statistics, about 30 hours of courses in or outside of the department representing a field of specialization, and **a minimum of about 30 hours devoted to the dissertation. In particular, the Ph.D. requires a total of at least 30 hours of Math/Stat 5099 or 6099 of which at least 24 hours must be Math/Stat 6099. Students must have passed at least three of the five individual exams in the Ph.D. qualifying exam**

to be eligible for 6099 credit. A student may be registered for 6099 credit during the semester of his or her qualifying exam, but he or she will need to switch from 6099 to 5099 if at least three individual exams are not passed. Math/Stat 5099 hours used to complete an M.S. thesis cannot be counted toward the doctoral research requirements.

The specific program for a candidate is designed jointly by the candidate and the candidate's advisory committee. A qualifying examination, usually taken soon after completion of the M.S. degree or equivalent course work, is required. For those obtaining a doctoral degree with emphasis in Mathematics a reading knowledge of one modern foreign language, typically either French, German, or Russian, is required. Those whose doctoral emphasis is computational and applied mathematics, statistics, knowledge in a programming language such as C, C++, or FORTRAN and programming expertise demonstrated through an approved project is required. At times approved by the advisory committee, candidates must pass both written and oral comprehensive examinations. These examinations may cover courses outside the department. The dissertation is expected to represent original research and to meet the standard ordinarily required for publication in one of the journals devoted to reporting research in the selected field.

Justification for request

To clarify which of the research hours that used to be 490 should now be 6099 as opposed to 5099.

Supporting Documents

Course Reviewer Comments

Key: 85

Program Change Request

Date Submitted: 04/11/14 2:31 pm

Viewing: **MC ENG-BS : Mechanical Engineering BS**

File: 86.25

Last approved: 02/24/14 4:18 pm

Last edit: 04/30/14 9:34 am

Changes proposed by: nisbett

Catalog Pages

Using this

Program

[Mechanical Engineering](#)

Start Term	8/1/2014 8/15/2014
Program Code	MC ENG-BS
Department	Mechanical & Aerospace Engineering
Title	

In Workflow

1. RMECHENG 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

Approval Path

1. 04/11/14 2:41 pm
drallmei: Approved for RMECHENG Chair
2. 04/16/14 11:18 am
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:34 am
sraper: Approved for Engineering DSCC Chair

History

1. Feb 24, 2014 by nisbett

Mechanical Engineering BS

Program Requirements and Description

Bachelor of Science Mechanical Engineering

Entering freshmen desiring to study Mechanical Engineering will be admitted to the Freshman Engineering Program. They will, however, be permitted, if they wish, to state a Mechanical 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 Mechanical 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. An average of at least two grade points per credit hour must also be attained in all courses taken in Mechanical 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 history course, one economics course, one humanities course, and **ENGLISH 1120** ~~ENGLISH 1120~~. The history course is to be selected from **HISTORY 1200** ~~HISTORY 1200~~, **HISTORY 1300** ~~HISTORY 1300~~, **HISTORY 1310** ~~HISTORY 1310~~, or **POL SCI 1200** ~~POL SCI 1200~~. The economics course may be either **ECON 1100** ~~ECON 1100~~ or **ECON 1200** ~~ECON 1200~~. The humanities course must be selected from "The ~~The~~ Approved List of Humanities and Social Science Courses for Engineering **Degrees**" ~~Degrees~~ maintained by the Office of Undergraduate Studies.
2. Depth requirement. Three credit hours must be taken in humanities or social sciences at the 2000-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 1180 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 4000-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** ~~ENGLISH 1120~~.
4. ~~Any specific departmental requirements in the general studies area must be satisfied.~~ Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman.

The Mechanical 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.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	ECON 1100 or 1200	3
CHEM 1310 ^a	4	MECH ENG 1720	3
ENGLISH 1120	3	PHYSICS 1135 ^a	4
HISTORY 1200 , or 1300 , or 1310 , or POL SCI 1200	3	MATH 1215 ^{a, b}	4
CHEM 1319	1	Elective-Hum or Soc Sci ^f	3
MATH 1214 ^{a, b}	4		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits

MATH 2222^a	4	MECH ENG 2761	3
Programming Elective ^{a, c}	3	MECH ENG 2519^a	3
CIV ENG 2200^a	3	MECH ENG 2360^a	3
PHYSICS 2135^a	4	MATH 3304^a	3
MECH ENG 2653	3	MET ENG 2110^a	3
	17		15
Junior Year			
First Semester	Credits	Second Semester	Credits
MECH ENG 3313	3	MECH ENG 3411^a	3
MECH ENG 3521	3	MECH ENG 3131	3
ELEC ENG 2800	3	MECH ENG 4840	2
CIV ENG 2210^a	3	Elective-Communications ^d	3
CIV ENG 2211	1	MECH ENG 3708	3
Elective-Advanced Math/Stat or Comp Sci ^e	3	MECH ENG 3525	3
	16		17
Senior Year			
First Semester	Credits	Second Semester	Credits
MECH ENG 4842	2	ENG MGT 1100	1
MECH ENG 4479	3	ENG MGT 1210	2
MECH ENG technical elective ^g	3	MECH ENG 4761	3
Free electiveⁱ	3	MECH ENG 4480	1
Literature elective ^f	3	MECH ENG 5000-level technical elective ^g	3
Technical elective^h	3	Breadth elective ⁱ	3
Elective-Advanced Hum or Soc Sci ^f	3		
	17		13
Total Credits: 128			

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. **Note:** Students must satisfy the common engineering freshman year course requirements, and be admitted into the department, in addition to the sophomore, junior and senior year requirements listed above with a minimum of 128 hours.

a A grade of "C" or better is required in [CHEM 1310](#), [MATH 1214](#), [MATH 1215](#), [MATH 2222](#), [MATH 3304](#), [PHYSICS 1135](#), [PHYSICS 2135](#), programming elective, [MET ENG 2110](#), [CIV ENG 2200](#), [CIV ENG 2210](#), [MECH ENG 2519](#), [MECH ENG 2360](#), and [MECH ENG 3411](#), both as prerequisite for follow-up courses in the curriculum and for graduation.

b [MATH 1208](#) and [MATH 1221](#) may be substituted for [MATH 1214](#) and [MATH 1215](#), respectively.

- c The programming elective consists of a lecture and lab combination, and may be selected from [COMP SCI 1970/COMP SCI 1980](#), [COMP SCI 1971/COMP SCI 1981](#), or [COMP SCI 1972/COMP SCI 1982](#), or [COMP SCI 1570/COMP SCI 1580](#). Note that [COMP SCI 1570/COMP SCI 1580](#) requires one more credit hour than the other options.
- d This course must be selected from the following: [ENGLISH 1160](#), [ENGLISH 3560](#) or [SP&M S 1185](#), or the complete four course sequence in Advanced ROTC ([MIL ARMY 3250](#), [MIL ARMY 3500](#), [MIL ARMY 4250](#), and [MIL ARMY 4500](#); or [MIL AIR 3110](#), [MIL AIR 3120](#), [MIL AIR 4110](#) and [MIL AIR 4120](#)).
- e This course must be selected from the following: [COMP SCI 3200](#), [MATH 3103](#), [MATH 3108](#), [STAT 3113](#), [STAT 3115](#) or any 5000-level math or computer science course approved by the student's advisor.
- f All electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
- g Six hours of technical electives, subject to approval by the student's advisor, must be in the Department of Mechanical and Aerospace Engineering. At least three of these technical elective hours must be at the 5000 level. This elective may not include co-op, special problems, or research credits, such as as 3002, 4000, or 4099. Honors students have special requirements for technical electives.
- h This elective must be a three credit hour course, subject to approval by the student's advisor, from any of the following areas: math, statistics, science, engineering, or computer science. The course must be at the 3000 or higher level, or have a prerequisite that is part of the required mechanical engineering curriculum. Exceptions to the course level may be approved by the student's advisor. The elective may not include co-op, special problems, or research credits, such as 3002, 4000, or 4099.
- i This elective consists of three credit hours, subject to approval by the student's advisor, and may be satisfied by any of the following: (1) A three credit hour course from any of the following areas: math, statistics, science, engineering, computer science, business, or IST. The course must be at the 3000 or higher level, or have a prerequisite that is part of the required mechanical engineering curriculum. Exceptions to the course level may be approved by the student's advisor; (2) Any three credit hour course in the list of approved courses for the Global Studies Minor; or (3) Any combination of three credit hours from co-op (3002), special problems (3000, 4000, or 5000), research (4099), or design team credit (Eng Mgt 2011, 2012, or 2013).
- j All Mechanical Engineering students must take the Fundamentals of Engineering Examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree. However, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.**

Energy Conversion Emphasis Area for Mechanical Engineering

Students desiring to obtain a Bachelor of Science degree in Mechanical Engineering with an Emphasis Area in Energy Conversion must satisfy all the requirements of the Bachelor of Science degree in Mechanical Engineering, with the additional stipulation that four courses must be taken as follows:

a. Two courses from the following list:		6
MECH ENG 5527	Combustion Processes	3
or AERO ENG 5527	Combustion Processes	
MECH ENG 5533	Internal Combustion Engines	3

MECH ENG 5566	Solar Energy Technology	3
MECH ENG 5567	Heat Pump And Refrigeration Systems	3
MECH ENG 5571	Environmental Controls	3
MECH ENG 5575	Mechanical Systems For Environmental Control	3
AERO ENG 5169	Introduction To Hypersonic Flow	3
AERO ENG 5535	Aerospace Propulsion Systems	3
b. One course from the following list:		3
MECH ENG 5519	Advanced Thermodynamics	3
or AERO ENG 5519	Advanced Thermodynamics	
MECH ENG 5525	Intermediate Heat Transfer	3
or AERO ENG 5525	Intermediate Heat Transfer	
MECH ENG 5131	Intermediate Thermofluid Mechanics	3
or AERO ENG 5131	Intermediate Thermofluid Mechanics	
MECH ENG 5139	Computational Fluid Dynamics	3
or AERO ENG 5139	Computational Fluid Dynamics	
c. One additional course from either list "a" or list "b", or from the following list:		3
ECON 4540	Energy Economics	3
ELEC ENG 5150	Photovoltaic Systems Engineering	3
ENV ENG 5660	Introduction To Air Pollution	3
NUC ENG 4257	Two-phase Flow in Energy Systems - I	3

Note: By using the **breadth elective free-electives** and technical electives to satisfy the above requirements, this emphasis area requires the same total number of credit hours as the BSME degree. A change of major form should be submitted to designate the Energy Conversion Emphasis Area.

Manufacturing Processes Emphasis Area for Mechanical Engineering

Students desiring to obtain a Bachelor of Science in Mechanical Engineering with an Emphasis Area in Manufacturing Processes must satisfy all requirements of the Bachelor of Science in Mechanical Engineering with the additional stipulation that four courses must be taken as follows:

a. The following course:		3
MECH ENG 3653	Manufacturing	3
b. One course from the following Manufacturing/Automation courses:		3
MECH ENG 5653	Computer Numerical Control Of Manufacturing Processes	3
MECH ENG 5655	Manufacturing Equipment Automation	3
MECH ENG 5449	Robotic Manipulators And Mechanisms	3
MECH ENG 5606	Material Processing By High-Pressure Water Jet	3
c. One course from the following Design courses:		3

MECH ENG 5763	Principles And Practice Of Computer Aided Design	3
MECH ENG 5656	Design For Manufacture	3
MECH ENG 5702	Synthesis Of Mechanisms	3
d. One course from the following list:		3
MECH ENG 5708	Rapid Product Design And Optimization	3
MECH ENG 5758	Integrated Product Development	3
e. The Math/Stat elective must be one of the following:		3
STAT 3113	Applied Engineering Statistics	3
STAT 3115	Engineering Statistics	3

A suggested sequence for the Junior and Senior years is given below. Note that by using the **breadth elective free-electives** and technical electives to satisfy the above requirements, this emphasis area requires the same total number of credit hours as the BSME degree. A change of major form should be submitted to designate the Manufacturing Processes Emphasis Area.

Junior Year			
First Semester	Credits	Second Semester	Credits
MECH ENG 3313	3	MECH ENG 3411 ^a	3
ELEC ENG 2800	3	MECH ENG 3131	3
MECH ENG 3521	3	MECH ENG 3525	3
CIV ENG 2210 ^a	3	MECH ENG 4840	2
CIV ENG 2211	1	MECH ENG 3653	3
STAT 3113 or 3115	3	Elective-Communications ^d	3
	16		17
Senior Year			
First Semester	Credits	Second Semester	Credits
MECH ENG 4842	2	ENG MGT 1100	1
MECH ENG 4479	3	ENG MGT 1210	2
MECH ENG 3708	3	MECH ENG 4761	3
Manufacturing Technical Elective ^f	3	MECH ENG 4480	1
Manufacturing Technical Elective ^f	3	Manufacturing Technical Elective ^f	3
Elective Literature	3	Electives-Hum or Soc Sci	3
	17		13
Total Credits: 63			

a A grade of "C" or better is required in [CHEM 1310](#), [MATH 1214](#), [MATH 1215](#), [MATH 2222](#), [MATH 3304](#), [PHYSICS 1135](#), [PHYSICS 2135](#), programming elective, [MET ENG 2110](#), [CIV ENG 2200](#), [CIV ENG 2210](#), [MECH ENG 2519](#), [MECH ENG 2360](#) and [MECH ENG 3411](#), both as prerequisite for follow-up courses in the curriculum and for graduation.

b [MATH 1208](#) and [MATH 1221](#) may be substituted for [MATH 1214](#) and [MATH 1215](#), respectively.

- c The programming elective consists of a lecture and lab combination, and may be selected from [COMP SCI 1970/COMP SCI 1980](#), [COMP SCI 1971/COMP SCI 1981](#), [COMP SCI 1972/COMP SCI 1982](#), or [COMP SCI 1570/COMP SCI 1580](#). Note that [COMP SCI 1570/COMP SCI 1580](#) requires one more credit hour than the other options.
- d This course must be selected from the following: [ENGLISH 1160](#), [ENGLISH 3560](#) or [SP&M S 1185](#), or the complete four course sequence in Advanced ROTC ([MIL ARMY 3250](#), [MIL ARMY 3500](#), [MIL ARMY 4250](#), and [MIL ARMY 4500](#); or [MIL AIR 3110](#), [MIL AIR 3120](#), [MIL AIR 4110](#) and [MIL AIR 4120](#)).
- e To include at least one course in literature. All electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
- f The nine hours of Manufacturing technical elective must be selected as follows:
 One course from the following Manufacturing/Automation courses: [MECH ENG 5653](#), [MECH ENG 5655](#), [MECH ENG 5449](#), [MECH ENG 5606](#).
 One of the following Design courses: [MECH ENG 5763](#), [MECH ENG 5656](#), [MECH ENG 5702](#).
 One course from the following list: [MECH ENG 5708](#), [MECH ENG 5758](#).
- g All Mechanical Engineering students must take the Fundamentals of Engineering Examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree, however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.

Mechanical Design and Analysis Emphasis Area

Students desiring to obtain a Bachelor of Science in Mechanical Engineering with an Emphasis Area in Mechanical Design and Analysis must satisfy all requirements of the Bachelor of Science in Mechanical Engineering, with the additional stipulation that four courses must be taken as follows:

a. One design course from the following list:		3
MECH ENG 5709	Machine Design II	3
MECH ENG 5702	Synthesis Of Mechanisms	3
MECH ENG 5704	Compliant Mechanism Design	3
MECH ENG 5708	Rapid Product Design And Optimization	3
MECH ENG 5715	Concurrent Engineering	3
MECH ENG 5656	Design For Manufacture	3
MECH ENG 5757	Integrated Product And Process Design	3
MECH ENG 5760	Probabilistic Engineering Design	3
MECH ENG 5763	Principles And Practice Of Computer Aided Design	3
IDE 220	Course IDE 220 Not Found	
MECH ENG 5761	Engineering Design Methodology	3
b. One analysis course from the following list:		3
MECH ENG 5307	Vibrations I	3

MECH ENG 5211	Introduction To Continuum Mechanics	3
MECH ENG 5212	Introduction to Finite Element Analysis	3
MECH ENG 5313	Intermediate Dynamics Of Mechanical And Aerospace Systems	3
MECH ENG 5222	Introduction To Solid Mechanics	3
MECH ENG 5238	Fatigue Analysis	3
MECH ENG 5449	Robotic Manipulators And Mechanisms	3
MECH ENG 5478	Mechatronics	3
c. Two additional courses from either of the previous lists.		6

Note that by using the **breadth elective** ~~free-electives~~ and technical electives to satisfy the above requirements, this emphasis area requires the same total number of credit hours as the BSME degree. A change of major form should be submitted to designate the Mechanical Design and Analysis Emphasis Area.

Justification for request

Note: The first two items here were previously submitted. The DC was rolled back in Courseleaf in order to add item 3.

1. The new programming course/lab using MATLAB proposed by Comp Sci (in recently submitted CC forms) is being added to the ME curriculum as an option for the programming elective.
2. IDE 220 was replaced by Mech Eng 5761 a few years ago when the IDE program closed, but IDE 220 is still mistakenly showing in the emphasis area elective list.
3. The 6 hours of free electives are being replaced with electives that are targeted to be useful for a career in ME. One of the courses may be from any technical area. One of the courses may be technical, global, or experiential.

Supporting Documents

Course Reviewer Comments

kleb6b (04/07/14 11:22 am): Rollback: Curriculum Change

sraper (04/30/14 9:34 am): The last sentence in the paragraph regarding the FE exam, the last sentence will need to be deleted due to the new Computer Based Test Procedure. A statement can be made that students are required to provide proof they took the exam.

Program Change Request

Date Submitted: 04/24/14 2:49 pm

Viewing: **MNRL PR-MI : Mineral Process Eng
Minor**

File: 94.1

Last edit: 04/24/14 2:49 pm

Changes proposed by: lahne

Catalog Pages

Using this

Program

[Mining Engineering](#)

Start Term	8/1/2014
Program Code	MNRL PR-MI
Department	Mining & Nuclear Engineering
Title	

In Workflow

1. **RMINNUCL 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

Approval Path

1. 04/24/14 3:12 pm
frimpong: Approved for RMINNUCL Chair
2. 04/24/14 3:28 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 9:16 am
srafer: Approved for Engineering DSCC Chair

Mineral Process Eng Minor

Program Requirements and Description

Minor in Mineral **Processing Process-Engineering**

The **minor Minor**-in Mineral **Processing Process-Engineering** provides an in-depth study of the fundamental theories and applications of mineral and coal processing and aggregate materials sizing and classification. Any student who receives a Bachelor of Science degree in an accredited engineering program from Missouri S&T may also receive the **minor Minor**-in Mineral **Processing Process-Engineering** by completing 15 credit hours in this specialty. The B.S. degree granting program shall determine whether or not courses taken for the **minor Minor**-in Mineral **Processing Process-Engineering** may also be used to fulfill the requirements of the B.S. degree from that program.

The following courses are required for the **minor** **Minor** in Mineral **Processing: Process Engineering:**

MIN ENG 3412	Principles Of Mineral Processing	3
MIN ENG 4422	Coal Preparation	3
MIN ENG 4412	Aggregate Materials Sizing and Characterization	3
MIN ENG 4423	Mineral Processing I (Flotation and Hydrometallurgy)	3
MIN ENG 4424	Mineral Processing II (Mechanics and Design)	3

Justification for
request

Supporting
Documents

Course Reviewer
Comments

Key: 94

Program Change Request

Date Submitted: 04/24/14 9:08 am

Viewing: **NU ENG-BS : Nuclear Engineering
BS**

File: 104.1

Last edit: 05/22/14 8:51 am

Changes proposed by: lahne

Catalog Pages

Using this

Program

[Nuclear Engineering](#)

Start Term	8/1/2014
Program Code	NU ENG-BS
Department	Mining & Nuclear Engineering
Title	

In Workflow

1. **RMINNUCL 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**

Approval Path

1. 04/24/14 9:39 am
frimpong: Approved
for RMINNUCL
Chair
2. 04/24/14 3:28 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:21 am
srafer: Approved
for Engineering
DSCC Chair
4. 04/30/14 2:26 pm
kleb6b: Approved
for Pending CCC
Agenda post
5. 05/22/14 8:51 am
kleb6b: Approved
for CCC Meeting
Agenda

Nuclear Engineering BS

Program Requirements and Description

Bachelor of Science

Nuclear Engineering

Entering freshmen desiring to study Nuclear Engineering will be admitted to the Freshman Engineering Program. They will, however, be permitted, to state a Nuclear Engineering preference, which will be used as a consideration for available departmental scholarships.

For the Bachelor of Science degree in Nuclear Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. A student must maintain an average of at least two grade points overall and for all courses taken in Nuclear Engineering.

~~The Nuclear Engineering curriculum contains a required number of hours in humanities and social sciences as specified by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).~~ Each student's program of study must contain a minimum of ~~18~~ **16** credit hours of course work from the humanities and the social sciences areas and should be chosen according to the following rules:

- All students are required to take one American history course and one economics course. The history course is to be selected from ~~HISTORY 1200~~ **HISTORY 1200**, ~~HISTORY 1300~~ **HISTORY 1300**, ~~HISTORY 1310~~ **HISTORY 1310**, or ~~POL SCI 1200~~ **POL SCI 1200**. The economics course may be either ~~ECON 1100~~ **ECON 1100** or ~~ECON 1200~~ **ECON 1200**.
- Depth requirement.** ~~Some disciplines require one humanities course to be selected from the approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater (see list of approved humanities and social science courses.~~ **Three** ~~Of the remaining hours, six~~ credit hours must be taken in humanities or social sciences at the **2000-level** ~~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.** ~~One of these courses must have as a prerequisite one of the humanities or social sciences courses already taken.~~ Foreign language courses numbered ~~1180 will 70 to 80 can~~ be considered to **satisfy this requirement.** ~~be one of these courses.~~ **Students** ~~(Students~~ may receive humanities credit for foreign language courses in their native tongue only if the course is at the **4000-level.** ~~300 level.)~~ **All courses taken to satisfy the depth requirement must be taken after graduating from high school.**
- ~~Of Some disciplines require one humanities course to be selected from~~ **the remaining hours, six credit hours must be taken in humanities** ~~approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater (see list of approved humanities and social sciences at the 1000 level or above and must be selected from the approved list.~~ **science courses.** ~~One of these courses must have as a prerequisite one of the humanities or social sciences courses already taken.~~ **Foreign language courses numbered 1180 can be considered to be one of these courses. (Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000 level.)**
- Skill courses are not allowed to meet humanities and social sciences requirements except in foreign languages. Students who select the foreign language option are urged to take more than one course.
- Special topics, special problems courses and honors seminars are allowed only by petition to and approval by the student's department chair.

The Nuclear Engineering program at Missouri S&T is characterized by its focus on the scientific basics of engineering and its innovative application. 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.

Freshman Year			
First Semester	Credits	Second Semester	Credits
Freshman Chemistry Requirement ¹	5	Elective-Hum or Soc Sci ³	3
<u>ENGLISH 1120</u>	3	<u>HISTORY 1200</u> , or <u>1300</u> , or <u>1310</u> , or <u>POL SCI 1200</u>	3
<u>FR ENG 1100</u>	1	<u>PHYSICS 1135</u>	4
<u>MATH 1214</u>	4	<u>MECH ENG 1720</u>	3

NUC ENG 1105 ²	1	MATH 1215	4
	14		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CIV ENG 2200	3	COMP SCI 3200 or any 200-level MATH or 300-level STAT	3
Elective ⁶	3	STAT 3111 , or 3113 , or 3115 , or 3117	3
MATH 2222	4	ECON 1100 or 1200	3
NUC ENG 2105	2	NUC ENG 2406	1
PHYSICS 2135	4	CIV ENG 2210	3
		MATH 3304	3
		PHYSICS 2305	3
	16		16
Junior Year			
First Semester	Credits	Second Semester	Credits
Elective-Hum or Soc Sci ³	3	ENGLISH 1160 or 3560	3
STAT 3111, or 3113, or 3115, or 3117	3	NUC ENG 4312	3
COMP SCI 3200 (or any 3000-level MATH or 5000-level STAT)	3	NUC ENG 3223	3
MET ENG 2110	3	NUC ENG 4203	3
NUC ENG 3205	3	NUC ENG 4229	3
NUC ENG 3221	3	Technical Electives-3000 or 4000 level ⁵	3
	15		18
Senior Year			
First Semester	Credits	Second Semester	Credits
Elective-Hum or Soc Sc ³	3	Elective-Hum or Soc Sci ³	3
NUC ENG 4428	2	Technical Elective-4000 level ⁵	3
NUC ENG 4207	3	Free Elective ⁴	6
Elective-4000 level MATH	3	NUC ENG 4438	2
NUC ENG 4496	1	NUC ENG 4497	3
NUC ENG 4241	3		
	15		17
Total Credits: 128			

Note: Minimum credit hours for graduation is 128.

¹ [CHEM 1310](#) and [CHEM 1319](#) or [CHEM 1351](#) and [CHEM 1100](#) or an equivalent training program approved by Missouri S&T.

2	Nuclear Engineering students are expected to take Nuclear Technology Applications (NUC ENG 1105) during their Freshman year. However, transfer students are exempt.
3	Humanities and Social Science to be taken in accordance with the policy described above.
4	Courses which do not count towards this requirement are remedial courses such as algebra and trigonometry, physical education courses, extra credits in required courses, and basic Air Force and Army ROTC courses (courses taught in the first two years of the ROTC program).
5	Any Math, Science, or Engineering courses.
6	The programming elective consists of a lecture and lab combination, and may be selected from COMP SCI 1970 and COMP SCI 1980 , or COMP SCI 1971 and COMP SCI 1981 , or COMP SCI 1570 and COMP SCI 1580 . Note that COMP SCI 1570 and COMP SCI 1580 requires one more credit hour than the other options.

Fundamentals of Engineering Exam: All Nuclear Engineering students must take the Fundamentals of Engineering Examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree, however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog.

~~Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.~~

Justification for
request

Changes per Ayodeji Alajo

Supporting
Documents

Course Reviewer
Comments

sraper (04/30/14 9:21 am): Several corrections need to be made to this form at the CCC level. I have the email communications for changes that need to be made.

kleb6b (05/22/14 8:51 am): Update depth requirement

Key: 104

Program Change Request

Date Submitted: 04/24/14 9:02 am

Viewing: **NU ENG-MI : Nuclear Engineering
Minor**

File: 105.1

Last edit: 05/22/14 8:53 am

Changes proposed by: lahne

Catalog Pages

Using this

Program

[Nuclear Engineering](#)

Start Term	Fall 2014
Program Code	NU ENG-MI
Department	Mining & Nuclear Engineering
Title	

In Workflow

1. **RMINNUCL 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**

Approval Path

1. 04/24/14 9:39 am
frimpong: Approved
for RMINNUCL
Chair
2. 04/24/14 3:28 pm
kleb6b: Approved
for CCC Secretary
3. 04/30/14 9:16 am
sraper: Approved
for Engineering
DSCC Chair
4. 04/30/14 2:26 pm
kleb6b: Approved
for Pending CCC
Agenda post

Nuclear Engineering Minor

Program Requirements and Description

Nuclear Engineering Minor Curriculum

A Nuclear Engineering minor enhances the academic credentials of a student and broadens his/her employment choices. A minimum of 15 hours is required for a minor in Nuclear Engineering.

Before the courses listed below can be taken, the student should have completed [MATH 3304 Elementary Differential Equations \(MATH 3304\)](#) (or equivalent) and [PHYSICS 2305 Introduction To Modern Physics \(PHYSICS 2305\)](#) (or [NUC ENG 3103 NUC ENG 3103](#) or equivalent). Required courses are:

NUC ENG 3205	Fundamentals Of Nuclear Engineering	3
NUC ENG 3223	Reactor Heat Transfer	3
NUC ENG 4312	Nuclear Radiation Measurements and Spectroscopy	3

The other 6 hours should be selected from nuclear engineering **3000 or 4000 level** ~~300-level~~ courses.

Justification for
request

Supporting
Documents

Course Reviewer
Comments

kleb6b (05/22/14 8:53 am): Change course name format

Key: 105

Program Change Request

New Program Proposal

Date Submitted: 04/21/14 4:55 pm

Viewing: **PROPOSED : Humanitarian Engineering and Science Minor**

File: 235

Last edit: 04/30/14 8:12 am

Changes proposed by: elmoreac

Start Term	8/1/2014
Program Code	PROPOSED
Department	Geological Science and Engineering
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

Approval Path

1. 04/24/14 7:37 am
reflori: Approved for RGEOENG Chair
2. 04/24/14 3:28 pm
kleb6b: Approved for CCC Secretary
3. 04/30/14 8:12 am
lahne: Rollback to CCC Secretary for Sciences DSCC Chair
4. 04/30/14 8:14 am
lahne: Approved for CCC Secretary
5. 04/30/14 9:18 am
srafer: Approved for Engineering DSCC Chair

Humanitarian Engineering and Science Minor

Program Requirements and Description

Humanitarian engineering may be described as a multi-disciplinary approach to improve the well-being of underserved or developing

communities and/or populations. The purpose of the minor is to provide the opportunity to all Missouri S&T students to:

- Potentially participate in activities designed to improve the well-being of underserved or developing communities/populations
- Address quality of life issues, local leadership partnerships, resource allocation, the natural world, and climate and risk
- Obtain a degree that explicitly requires experiential service learning

The Humanitarian Engineering and Science Minor requires the completion of a minimum of 15 hours of courses as described below:

A minimum of three semesters (for a minimum total of 1.5 SCH) of GEO ENG 1810 – Humanitarian Engineering and Science Colloquium.

A minimum of three semesters (for a minimum total of 1.5 SCH) of GEO ENG 1880 – Civic Engagement.

Three hours of ethics-related coursework to be selected from:

[PHILOS 3223](#) Bioethics

[PHILOS 3225](#) Engineering Ethics

[PHILOS 3235](#) Business Ethics

Nine hours of electives to be selected from:

[ARCH ENG 5642](#) Sustainability, Population, Energy, Water, and Materials (co-listed with [CIV ENG 5642](#) and [ENV ENG 5642](#))

[BIO SCI 2372](#) Issues in Public Health

[BUS 3115](#) Introduction to Teambuilding and Leadership

[ECON 4440](#) Environmental And Natural Resource Economics

[ECON 4641](#) Foundations of Sustainability

[ECON 4642](#) Introduction to Global Eco- and Social-preneurship and Innovation

[ECON 4730](#) Economic Development

[ENG MGT 4330](#) Human Factors

[ENGLISH 3228](#) The American Experience

[GEO ENG 5331](#) Subsurface Hydrology

[GEO ENG 5211](#) Introduction to International Engineering and Design Lab

[GEO ENG 5247](#) Introduction to International Engineering and Design (lecture)

[GEO ENG 5092](#) International Engineering and Design

[HISTORY 3510](#) Twentieth Century Technology And Society

[MKT 3210](#) Consumer Behavior

[MKT 4150](#) Customer Focus and Satisfaction

[POL SCI 2500](#) International Relations

[POL SCI 3510](#) The Politics Of The Third World

[PSYCH 4600](#) Social Psychology

[PSYCH 4710](#) Human Factors

[PSYCH 4730](#) Environmental Psychology

[PSYCH 4992](#) Cross-Cultural Psychology

[SP&M S 3235](#) Intercultural Communication

[SP&M S 3250](#) Interpersonal Communication

Foreign language – a maximum of 4 SCH may be applied to the Humanitarian Engineering and Science Minor electives requirement.

Justification for request

This is a Geological Engineering minor.

The civic engagement element of the HES Minor addresses Lever 1.1 of the Strategic Plan which requires all undergraduates to participate in some significant experiential learning activity before graduation. The development of a HES Minor is explicitly included in Prioritized Action 1.2. 6 “(d)velop minor and certificate programs in leadership, entrepreneurship, humanitarian engineering and science, and creativity”. Students participating in their civic engagement activities during any future intercession or spring break time periods would help address Prioritized Action 1.2.5.

Finally, Lever 3.4 includes, in part, increasing the diversity of students. It has been the Geological Engineering Program’s experience that classes with a significant humanitarian engineering element such as the International Engineering and Design course sequence have a strong appeal for women.

Please refer to the attached white paper which was approved by the Provost and VPAA offices.

Supporting Documents

[HES white paper 1_4.docx](#)

Course Reviewer Comments

lahne (04/30/14 8:12 am): Rollback: correct workflow

Key: 235

S&T Humanitarian Engineering & Science White Paper

Draft 1.4 by Curt Elmore. Submitted October 3, 2013. First revision January 16, 2014. Second revision April 7, 2014.

Overview

Humanitarian engineering can be described as a multi-disciplinary approach to improve the well-being of underserved or developing communities. There is a relative small number of universities including Colorado School of Mines (CSM), Valparaiso University (Valpo), Dartmouth University, and Pennsylvania State University that have humanitarian engineering programs. Given the relatively small number of universities with a humanitarian engineering program, Missouri S&T has the opportunity to become a leader in the field.

Borrowing from the American Society of Civil Engineers (ASCE) Envision process, humanitarian engineering projects are those that incorporate to some degree elements of: 1) quality of life issues, 2) local leadership partnerships, 3) resource allocation, 4) the natural world, and 5) climate and risk.

The purpose of this white paper is to provide a framework for addressing S&T Strategic Plan Prioritized Action 1.2.6 which is

“Develop minor and certificate programs in leadership, entrepreneurship, *humanitarian engineering* and science, and creativity” (italics added).

Minor Purpose

The purpose of the minor is to provide the opportunity to all Missouri S&T undergraduate students to:

- Potentially apply a multi-disciplinary approach to improving the well-being of underserved or developing communities
- Address quality of life issues, local leadership partnerships, resource allocation, the natural world, and climate and risk
- Obtain a degree that explicitly required experiential service learning

Furthermore, the minor will foster well-defined relationships with:

- Other University of Missouri campuses
- Corporate and other external partners

Peer programs

Humanitarian engineering¹ programs provide a curricular structure for students to pursue altruistic goals while engaging in best practices that address both technical and human issues experientially.

Humanitarian engineering programs commonly include some combination of the following requirements:

- Completion of a colloquium course that addresses human nature and human values and other relevant topics
- Ethics course
- Courses that address the impact of culture, traditions, politics, governance, and societal perspectives on engineering practices
- Foreign language training because most programs include a strong international focus
- Technical electives that specifically address “frugal” or “sustainable” engineering as defined by the five Envision elements cited above
- Civic engagement co-curricular activities including experiential learning through student organizations such as Engineers Without Borders (EWB), Blue Key, Rotaract, Circle K, and others

Humanitarian engineering programs at other institutions explicitly facilitate the completion of the program by non-engineering students, and the completion of the program may include requirements that are above and beyond the requirement for an existing baccalaureate degree.

Proposed S&T minor content

The proposed Humanitarian Engineering and Science (HES) Minor for Missouri S&T is loosely modeled on the Valparaiso University program. Dr. Pete Johnson, Chair of Mechanical Engineering and faculty sponsor of the Humanitarian Engineering Minor Program at Valparaiso University, was contacted on September 26, 2013 to provide input beyond that which was available on the Valpo website. The proposed curricular content described below incorporates some of the Valpo program elements while addressing issues specific to Missouri S&T:

- The HES Minor is open to all S&T students, and the name “Humanitarian Engineering and Science” reflects the inclusive nature of the program.
- Currently S&T students engage in civic engagement as a part of extracurricular activities such as Engineers Without Borders, Greek service projects, and other service learning activities. This minor will help provide interested students with the opportunity to increase their knowledge on humanitarian-related subjects as well as the opportunity to achieve formal recognition of their service learning academic accomplishments.

¹ It appears that the Strategic Plan included the phrase “and science” in order to be inclusive; however, it is common for other institutions with established programs to use the simpler term “Humanitarian Engineering” to describe multi-disciplinary programs that involve students from programs which are not limited to solely engineering.

- Missouri S&T has a strong tradition of collaborating with corporate and community partners, and this tradition can be extended to the HES Minor.

The curriculum will include the following courses for a total of 15 credit hours:

- Required courses
 - 1.5 credit hours of GE 1xxx Civic Engagement. This will be a new course offered by the GE program and open to all Missouri S&T students pursuing an undergraduate degree. The 1000-level designation means that most engineering students will not be able to use the credit towards technical elective requirements, and neither will the course count as humanities and social science credit.
 - 1.5 credit hours of GE 1xxx HES Colloquium. This is another new course that is labeled as a 1000-series course following the Civic Engagement numbering rationale.
 - 3 credit hours of an ethics course to be determined (TBD)
- Elective courses
 - 9 credit hours of electives from a specified list TBD with a cap of 4 credit hours of foreign language applied toward meeting the minor's requirements.

Following the Valpo model, the Civic Engagement credit will be in the form of an independent study class where each student is expected to:

- Write a proposal which
 - Identifies the partner association conducting the overall project
 - Includes a statement of support from a responsible individual associated with the partner association that indicates that that individual will confirm the level of effort provided by the student
 - Defines the activities the student will conduct for the partner organization
 - Proposes a timeline
- Develop a final report which
 - Documents the actions taken by the student
 - Includes personal reflection on the impact of the student's prior academic training, the partner organization's participation, and the student's efforts on the outcome of the subject project
 - Certifies that the student participated directly in a minimum of 60 hours of effort with the partner organization on the subject project

It is expected that a student will receive 0.5 credit hours for every 20 hours of effort, that the student will generally take 3 semesters and/or intercession periods to obtain the required 1.5 credit hours, and that the course will be graded S/U.

The HES Colloquium class will be offered in 0.5 credit hours increments every semester, and it will be graded S/U like other seminar classes. Because the potential for low HES enrollments is significant for the early years of the program, the class will be offered in conjunction with existing seminar series such as the Honors College seminar series conducted by the Vice Provost of Undergraduate Studies. The pool

of speakers will be drawn from S&T faculty members serving on the HES Advisory Board described below, HES partners from other UM campuses, and HES corporate and community partners. It is expected that speakers will address topics that might include the following:

- Impact of Western interventions on developing cultures
- Ethics and engineering
- Frugal engineering
- Human nature and human values
- The role of civic engagement in corporate culture
- Life-long learning and civic engagement
- Responsible behavior in outreach programs
- Others to be suggested by the HES Advisory Board

The S&T Vice Provost for Undergraduate Studies will form the HES Advisory Committee, and the role of that committee will be:

- Allow interested faculty members from outside the GE program to participate in the HES Minor program
- To nominate courses for HES electives list
- Recruit S&T students to participate in the minor
- Identify potential corporate and community partners, and recommend specific Civic Engagement projects for individual students
- Mentor students pursuing the HES Minor

It is the explicit goal of the HES Minor program to develop collaborations with programs at other University of Missouri campuses to provide hybrid or distance courses to HES students to supplement curricular content available at Missouri S&T. For example, the University of Missouri-Kansas City Public Health Studies Program has been approached about formally collaborating on the human factors associated with providing point-of-use household water treatment for rural households in Guatemala. That potential collaboration may yield a public health-based course for S&T HES Minor students in the future.

Community and corporate partners

Community and corporate partners have an important role in the HES program. The partners will have the opportunity to:

- Provide civic engagement opportunities to the HES students. These opportunities could be a part of the core mission of a partner or the opportunities could be a part of the organization's engagement activities that are outside of the organization's normal scope. For example, some engineering consulting firms encourage their employees to participate in Habitat for Humanity projects or similar projects.
- Mentor students involved in civic engagement projects related to the partner's projects.

- Provide content for the HES Colloquium on topics such as, but not limited to:
 - The role of philanthropy in the corporate environment
 - Civic engagement's impact on life-long learning
 - Balancing quality of life issues

A training program will be developed for the participating community and corporate partners so that S&T students receive consistent guidance and mentoring. The training will be developed in coordination with the Office of the Vice Provost of Undergraduate Studies, and consideration will be given towards providing the training on line to better accommodate the community and corporate partners' schedules.

To date, the individuals from Fort Leonard Wood and the Missouri Department of Natural Resources have expressed interest in participating in the HES program. Phelps County Regional Medical Center Physician's Group has also been approached, and contact will be made with the U.S. Environmental Protection Agency (Region 7), URS Group, Inc., Overland Park, KS, and the Phelps County Community Partnership in the near future.

Strategic Plan Levers and Prioritized Actions

The civic engagement element of the HES Minor addresses Lever 1.1 of the Strategic Plan which requires all undergraduates to participate in some significant experiential learning activity before graduation. The development of a HES Minor is explicitly included in Prioritized Action 1.2. 6 "(d)develop minor and certificate programs in leadership, entrepreneurship, humanitarian engineering and science, and creativity". Students participating in their civic engagement activities during the intercession or spring break time periods would help address Prioritized Action 1.2.5.

Finally, Lever 3.4 includes, in part, increasing the diversity of students. It has been the Geological Engineering Program's experience that classes with a strong humanitarian engineering element such as the International Engineering and Design course sequence have a strong appeal for women. The following figure shows that there is a large percentage of women that have participated in that course sequence when the subject matter was the study of the provision of safe drinking water to rural families in Guatemala.

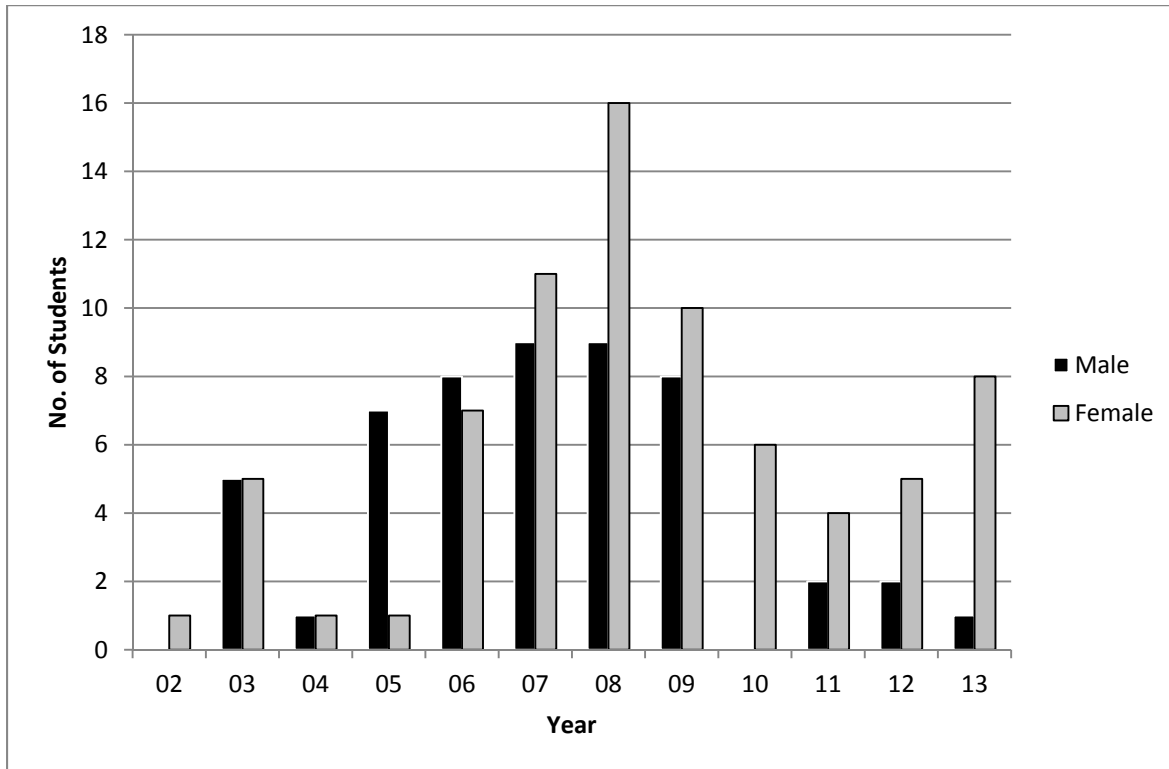


Figure 3. Gender composition of students participating in Guatemala-related studies. (Elmore 2013)

Generally addressing the prioritized actions and levers listed above are a part of the GE Strategic Plan which is currently under development. At the time of this writing, the academic program composition of the department that will house GE is not known; however, it is assumed that the development of the HES Minor program will be consistent with the future department strategic plan.

Costs

The Strategic Plan identifies the resources required for Prioritized Action 1.2.5 (humanitarian engineering and science) as “personnel time”. Therefore, it is proposed that a GE faculty member receive $\frac{1}{4}$ release time to organize and administer the HES Minor program.

It is expected that community and corporate partners would participate in the program at no cost to Missouri S&T.

The HES Minor will be targeted to potential students, incoming students, and first-year students following the integrated campus wide communications and marketing plan that will be developed by the Marketing Leadership Team under Prioritized Action 2.4.1.

No other costs are anticipated.

Program Change Request

Date Submitted: 09/28/13 7:04 pm

Viewing: **PSYCH-BA : Psychology BA**

File: 192.1

Last edit: 05/08/14 10:52 am

Changes proposed by: nstone

Catalog Pages

Using this

Program

[Psychology](#)

Start Term	8/1/2014
Program Code	PSYCH-BA
Department	Psychological Science
Title	

In Workflow

1. **RPSYCHOL 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

Approval Path

1. 09/28/13 7:05 pm
nstone: Approved for RPSYCHOL Chair
2. 10/10/13 3:43 pm
lahne: Approved for CCC Secretary
3. 11/06/13 4:22 pm
barryf: Rollback to RPSYCHOL Chair for Social Sciences DSCC Chair
4. 04/11/14 11:44 am
nstone: Approved for RPSYCHOL Chair
5. 04/16/14 11:04 am
lahne: Approved for CCC Secretary
6. 04/17/14 8:30 am
barryf: Rollback to CCC Secretary for Social Sciences DSCC Chair
7. 04/17/14 9:51 am
lahne: Rollback to RPSYCHOL Chair for CCC Secretary

8. 04/17/14 6:34 pm
nstone: Approved
for RPSYCHOL
Chair
9. 04/24/14 3:28 pm
kleb6b: Approved
for CCC Secretary
10. 04/25/14 9:48 am
barryf: Approved for
Social Sciences
DSCC Chair
11. 04/30/14 2:31 pm
kleb6b: Approved
for Pending CCC
Agenda post

Psychology BA

Program Requirements and Description

Bachelor of Arts Psychology

A minimum of 120 credit hours is required for a Bachelor of Arts degree in Psychology and an average of at least two grade points per credit hour must be obtained. The Psychology B.A. curriculum requires 23 hours of basic skills and concepts. That is, 6 hours of English Composition, 6 hours of Western Civilization, and 11-16 hours of foreign language. Twelve semester hours in humanities must be taken with at least one course taken in each of the three areas of literature (English and American) , philosophy, and fine arts (art, music and theater), but not to include studio and performance offerings. A minimum of twelve semester hours is required in social sciences in at least two of the following three areas: economics, political science, and history. **A And a minimum of 12 34 hours of math and science are required and a minimum of 34 hours are required** in psychology. Up to 12 credit hours of advanced ROTC may be credited toward the degree. Specific requirements for the Bachelor of Arts degree are outlined in the sample program listed below.

1. **ENGLISH 1120** ~~ENGLISH 1120~~ and one additional three hour composition course (6 hours).
2. Western Civilization (**HISTORY 1100** ~~HISTORY 1100~~ and **HISTORY 1200** ~~HISTORY 1200~~) (6 hours).
3. Foreign languages for at least 3 semesters of basic study in French, German, Russian, Spanish or an approved substitute; or one year of basic study in a foreign language in either French, German, Russian, Spanish, or an approved substitute , and a humanities or social sciences course taught in a foreign country and employing the language of that country; or one year of basic study in each of two of the foreign languages of French, German, Russian or Spanish or an approved substitute (11-16 hours).
4. Sciences. At least one course taken in biological (biological sciences) and physical (chemistry, geology and geophysics, physics) sciences. At least one statistics course. A laboratory course is required (and a lab offered in engineering also may count at the discretion of the student's major advisor) toward the total requirement (12 hours).
5. Humanities and fine arts. Courses used to satisfy this requirement must include one course in each of the three areas of literature (English or American), philosophy, and fine arts (art, music or theater), but not to include studio and performance offerings (12 hours).
6. Social Sciences. At least two of the following social science areas are to be included: economics, political science, or history (12 hours).

7. Psychology (34 hours):
- Introduction to Psychology (PSYCH 1100)** ~~Introduction to Psychology (PSYCH 1100)~~, **General Psychology (PSYCH 1101)** ~~General Psychology (PSYCH 1101)~~, and Capstone course (**PSYCH 4990** ~~PSYCH 4990~~, **PSYCH 4010** ~~PSYCH 4010~~, **PSYCH 4993** ~~PSYCH 4993~~, **PSYCH 4590**, **PSYCH 4994**, **PSYCH 4992** ~~PSYCH 4590~~, ~~PSYCH 4994~~, ~~PSYCH 4992~~, or **PSYCH 4099** ~~PSYCH 4099~~, 3 hours credit).
 - Three additional courses from each of the following two areas of psychology:
 - Sensation & Perception, Cognitive, Learning, Neuroscience, Developmental, Abnormal, Social, or Personality
 - Educational, Adolescent, Human-Computer Interaction, Industrial, Human Factors, Clinical, Group Dynamics, or Organizational
 - Electives from Psychology to complete the 34 hour major requirement.
8. Major-field requirements: A cumulative grade point average of 2.0 must be earned in all course work taken in the major field. Upper-class (**3000-4000-level**) (~~200-300-level~~) courses completed with grades of "**D**" "~~D~~" may not be included in the major field without the approval of the chair of the department. At least nine hours of upper-class work in the major field must be completed in residence at Missouri S&T.
9. Minor: A minor will be selected from any discipline other than the major with the approval of the student's advisor. A total of at least 15 hours is required for the minor, but may include courses, which also satisfy other requirements. At least nine hours must be beyond the introductory level. A cumulative grade point average of 2.0 must be earned in all course work required in the minor field. At least six hours of work in the minor field must be completed in residence at Missouri S&T.
10. Basic ROTC may be elected in the freshman and sophomore years, but is not creditable toward a degree. Up to 12 credit hours of advanced ROTC may be credited toward a degree.
11. Elective Credits: In consultation with his/her advisor, each student will elect sufficient additional courses to complete a minimum of 120 credit hours.

Emphasis Areas

Note: The following areas identify courses from which a student may opt to develop an emphasis area. It is not required that students obtain an emphasis specialty within Psychology.

Human Resources/Personnel		
PSYCH 4700	Industrial Psychology	3
PSYCH 4600	Social Psychology	3
PSYCH 4601	Group Dynamics	3
PSYCH 4602	Organizational Psychology	3
Human Services		
PSYCH 3311	Psychological & Educational Development Of The Adolescent	3
or PSYCH 3310	Developmental Psychology	
PSYCH 4501	Abnormal Psychology	3
PSYCH 4500	Personality Theory	3
PSYCH 4510	Clinical Psychology	3
Cognitive Neuroscience		
PSYCH 4411	Sensation and Perception	3
PSYCH 3400	Theories Of Learning	3
or PSYCH 4501	Abnormal Psychology	
PSYCH 4400	Cognitive Psychology	3
PSYCH 4410	Neuroscience	3

Usability of Technology		
PSYCH 2300	Educational Psychology	3
PSYCH 3720	Web Design And Development	3
PSYCH 4710	Human Factors	3
PSYCH 4720	Human-Computer Interaction	3
Psychology of Leadership		
PSYCH 4600	Social Psychology	3
or PSYCH 4603	Social Influence: Science and Practice	
PSYCH 4610	Psychology of Leadership in Organizations	3
PSYCH 4993	Psychology of Women	3
or PSYCH 4601	Group Dynamics	
PSYCH 4602	Organizational Psychology	3

Bachelor of Arts Psychology (Secondary Education Emphasis Area)

You may earn a B.A. degree in Psychology from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with the Secondary Education emphasis area program. This program can be completed in four academic years and student teaching is arranged with public schools within 30 miles of the Rolla campus.

Students interested in this emphasis area should consult with the advisor for the Secondary Education Emphasis Area in the Department of Psychological Science.

In order to successfully complete this emphasis area, students must have at least 22 on the ACT, maintain a cumulative GPA of at least 2.5, and attain at least a 2.5 GPA in all Psychology courses. Current Missouri S&T or transfer students who wish to pursue this emphasis area must meet both of these GPA requirements to be accepted into the program. Students must also meet all requirements listed under the Teacher Education Program in this catalog. Students who do not meet all the teacher certification requirements will not be eligible for the Secondary Education Emphasis Area, even if they have completed all course work.

A degree with this emphasis area requires 128 credit hours. The required courses are provided below.

Communications Skills: 9 semester hours		
ENGLISH 1120	Exposition And Argumentation	3
ENGLISH 1160	Writing And Research	3
SP&M S 1185	Principles Of Speech	3
Humanities: 12 semester hours		
One must be in Art, Music, or Theatre		3
One must be in Philosophy		3
One must be in Literature		3
One additional humanities from the above course groups, Foreign Language, or Etymology		3
Social Sciences: 18 semester hours		
HISTORY 1300	American History To 1877	3

or HISTORY 1310	American History Since 1877	
POL SCI 1200	American Government	3
POL SCI 2760	Contemporary Political Thought	3
or POL SCI 2210	American Political Parties	
or POL SCI 3300	Principles Of Public Policy	
or POL SCI 3760	The American Presidency	
PSYCH 1101	General Psychology	3
ECON 1100	Principles Of Microeconomics	3
or ECON 1200	Principles Of Macroeconomics	
Geography		3
Natural Science/Mathematics: 13 semester hours		
Physics, Chemistry or Geology		3-4
Mathematics		3
BIO SCI 1113	General Biology	3
STAT 1115	Statistics For The Social Sciences I	3
Professional Requirements: 26 semester hours		
EDUC 1140	Course EDUC 1140 Not Found	2
EDUC 1040	Perspectives In Education	2
EDUC 1174	School Organization & Adm For Elementary & Secondary Teachers	2
EDUC 2216	Teaching Reading In Content Area	3
EDUC 2251	Historical Foundation Of American Education	3
EDUC 280	Course EDUC 280 Not Found	6
EDUC 3280	Teaching Methods And Skills In The Content Areas	6
EDUC 4298	Student Teaching Seminar	1
PSYCH 2300	Educational Psychology	3
PSYCH 3311	Psychological & Educational Development Of The Adolescent	3
PSYCH 4310	Psychology Of The Exceptional Child	3
Clinical Experience: 16 semester hours		
EDUC 1104	Teacher Field Experience	2
EDUC 1164	Aiding Elementary, Middle And Secondary Schools	2
EDUC 4299	Student Teaching	12
Psychology Degree Requirements: 17 semester hours		
PSYCH 1100	Introduction to Psychology	1
PSYCH 2200	Research Methods	4
PSYCH 3400	Theories Of Learning	3
PSYCH 3310	Developmental Psychology	3

PSYCH 4501	Abnormal Psychology	3
or PSYCH 4500	Personality Theory	
PSYCH 4600	Social Psychology	3
Certification: 17 semester hours		
9 hours of American History		
HISTORY 3320	Colonial America	
HISTORY 3325	Revolutionary America, 1754-1789	
HISTORY 3340	Age Of Jefferson And Jackson	
HISTORY 3345	Civil War And Reconstruction	
HISTORY 347	Course HISTORY 347 Not Found	
HISTORY 3360	Recent United States History	
HISTORY 351	Course HISTORY 351 Not Found	
HISTORY 3425	History Of The Old South	
HISTORY 3426	History Of The Modern South	
HISTORY 355	Course HISTORY 355 Not Found	
HISTORY 3430	History of the American West	
HISTORY 358	Course HISTORY 358 Not Found	
HISTORY 360	Course HISTORY 360 Not Found	
HISTORY 3480	History Of Baseball	
HISTORY 3440	20th Century Americans In Combat	
HISTORY 3442	The United States in Vietnam	
HISTORY 3761	U.S. Diplomatic History to World War II	
HISTORY 385	Course HISTORY 385 Not Found	
8 hours of World History		
HISTORY 1100	Early Western Civilization	
HISTORY 1200	Modern Western Civilization	
HISTORY 2220	Making Of Modern Britain	
HISTORY 2222	The Making Of Modern France	
HISTORY 2224	Making Of Modern Russia	
HISTORY 2210	European Diplomatic History 1814 - Present	
HISTORY 2660	Modern East Asia	
HISTORY 3120	Ancient Greece	
HISTORY 3130	Medieval History I	
HISTORY 3135	Medieval History II	
HISTORY 3140	History Of Renaissance Thought	
HISTORY 3230	Europe In The Age Of The French Revolution And Napoleon	

HISTORY 3235	Foundations Of Contemporary Europe 1815-1914
HISTORY 3240	Contemporary Europe

Justification for
request

Course renumbering

The History courses were not deleted because they are part of the Teacher Education Program emphasis. Larry Gragg and Jana Neiss are working on this. I assume these courses will be deleted, but others will be included. I cannot make this decision. This will apply to all majors with the TEP emphasis.

Supporting
Documents

Course Reviewer
Comments

barryf (09/27/13 3:56 pm): Rollback: There are History courses that are not valid. Perhaps they can just be deleted, since there are enough other courses to compose the 9 hour requirement.

barryf (11/06/13 4:22 pm): Rollback: Another try to roll it back to you.

nstone (11/06/13 5:44 pm): It looks like the History courses that needed to be deleted finally got deleted. So, I'm sending this forward.

barryf (04/17/14 8:30 am): Rollback: Science requirement should be added.

lahne (04/17/14 9:51 am): Rollback: Per DSCC-Social Sciences: Science requirement should be added.

Program Change Request

Date Submitted: 04/23/14 5:58 pm

Viewing: **TCH COM-BS : Technical
Communication BS**

File: 132.5

Last approved: 04/23/14 3:32 pm

Last edit: 04/23/14 5:58 pm

Changes proposed by: kswenson

Catalog Pages

Using this

Program

[Technical Communication](#)

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

Technical Communication BS

Program Requirements and Description

Bachelor of Science

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

Approval Path

1. 04/23/14 6:09 pm
kswenson:
Approved for
REGLISH Chair
2. 04/24/14 3:28 pm
kleb6b: Approved
for CCC Secretary
3. 04/25/14 9:19 am
ivliyeva: Approved
for Arts &
Humanities DSCC
Chair

History

1. Apr 23, 2014 by
kswenson

Technical Communication

The Technical Communication degree requires 33 credit hours of core courses: [ENGLISH 2410](#) , [TCH COM 2540](#) (or [ENGLISH 2540](#)), [TCH COM 2560](#) (or [ENGLISH 2560](#)), [TCH COM 5620](#) , [TCH COM 3440](#) , [TCH COM 4410](#) , and five additional courses from the following list: [ENGLISH 3560](#) , [ENGLISH 3302](#) , [TCH COM 3001](#) , [TCH COM 3010](#) , [TCH COM 5510](#) , [TCH COM 4550](#) , [TCH COM 5610](#) , [TCH COM 4085](#) , [TCH COM 5530](#), [TCH COM 5560](#), [TCH COM 4520](#), [TCH COM 4450](#). It also requires 42 hours of general education courses, 36 hours of interdisciplinary courses (see Note below), and 15 hours of free electives, for a total of 126 hours. Specific requirements for the bachelor's degree are outlined in the sample program listed below.

Freshman Year			
First Semester	Credits	Second Semester	Credits
ENGLISH 1120	3	TCH COM 1600	3
MATH 1140	3	BIO SCI 1113 , or 2223 , or 2233 , or 2263	3
PSYCH 1101	3	HISTORY 1300 , or 1310 , or 1100 , or 1200	3
Interdisciplinary Course ¹	3	Interdisciplinary Course ¹	3
Humanities, Art, Music, Theater	3	ECON 1100	3
	15		15
Sophomore Year			
First Semester	Credits	Second Semester	Credits
SP&M S 1185	3	Humanities, Art, Music, Theater	3
English Literature	3	POL SCI 1200	3
TCH COM 2540	3	TCH COM 2560	3
ENGLISH 2410	3	TCH COM Elective	3
Interdisciplinary Course ¹	3	Chemistry, Geology, Physics	3
		Interdisciplinary Course ¹	3
	15		18
Junior Year			
First Semester	Credits	Second Semester	Credits
Math/Statistics	3	TCH COM 5620	3
TCH COM 3440	3	TCH COM Elective	3
Interdisciplinary Course ¹	3	TCH COM Elective	3
Interdisciplinary Course ¹	3	Interdisciplinary Course ¹	3
Interdisciplinary Course ¹	3	Interdisciplinary Course ¹	3
		Free Elective	3
	15		18
Senior Year			
First Semester	Credits	Second Semester	Credits
TCH COM Elective	3	TCH COM 4410	3

Interdisciplinary Course ¹	3	TCH COM Elective	3
Interdisciplinary Course ¹	3	Interdisciplinary Course ¹	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
	15		15
Total Credits: 126			

¹ In consultation with his or her advisor, the student will select 36 hours of Interdisciplinary Courses from only two of the areas listed below, with no fewer than 15 credit hours per area: biological sciences, business, chemistry, computer science, economics, education, engineering management, English, finance, one foreign language, geology, history, information science and technology, management and information systems, mathematics, philosophy, physics, political science, psychology, speech and media studies, statistics, any area of engineering.

At least 12 of the 36 hours must come from courses numbered 2000-level or above. The student's course selections must be approved by the Department of English and Technical Communication's technical communication committee.

Justification for request

Additional courses simply fill out the list of potential options as students are currently being advised.

Supporting Documents

Course Reviewer Comments

Key: 132

Program Change Request

Date Submitted: 04/23/14 6:00 pm

Viewing: **TCH COM-MI : Technical Communication Minor**

File: 181.5

Last approved: 04/22/14 11:06 am

Last edit: 05/22/14 8:55 am

Changes proposed by: kswenson

Catalog Pages

Using this

Program

[English](#)

[Technical Communication](#)

Start Term	8/1/2014
Program Code	TCH COM-MI
Department	English and Technical Communication
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

Approval Path

1. 04/23/14 6:09 pm
kswenson:
Approved for
RENGLISH Chair
2. 04/24/14 3:28 pm
kleb6b: Approved
for CCC Secretary
3. 04/25/14 9:20 am
ivliyeva: Approved
for Arts &
Humanities DSCC
Chair
4. 04/30/14 2:37 pm
kleb6b: Approved
for Pending CCC
Agenda post

History

1. Apr 22, 2014 by
kswenson

Technical Communication Minor

Program Requirements and Description

Technical Communication

To complete this minor students must take [TCH COM 1600](#) , [TCH COM 2540 \(or ENGLISH 2540\)](#) , and [TCH COM 2560 \(or ENGLISH 2560\)](#) plus ~~plus~~ six additional hours elected from the **4000-level** ~~3000-level~~ or above technical communication courses.

Justification for
request

Most 3000-level courses were eliminated as per advice of CCC chair.

Supporting
Documents

Course Reviewer

Comments

kleb6b (05/22/14 8:55 am): Clarification

Key: 181

Miscellaneous Change Request

New Miscellaneous Request

Date Submitted: 05/14/14 8:09 am

Viewing: **1 : Change name of GSE dept to**

Geosciences and Geological and Petroleum Engineering

Last edit: 05/14/14 8:09 am

Changes proposed by: lahne

Request Type	Name Change
--------------	-------------

Title	
-------	--

In Workflow

1. **RGEOENG Chair**
2. **Registrar**
3. **Engineering DSCC**
4. Sciences DSCC
5. Pending CCC
Agenda post
6. CCC Meeting
Agenda
7. Campus Curricula
Committee Chair
8. FS Meeting
Agenda
9. Faculty Senate
Chair
10. Registrar

Approval Path

1. 05/14/14 8:22 am
reflori: Approved
for RGEOENG
Chair
2. 05/14/14 8:23 am
lahne: Approved
for Registrar

Change name of GSE dept to Geosciences and Geological and Petroleum Engineering

Description	The current GSE (Geological Sciences and Engineering) department
-------------	--

consists of three academic programs: Geology and Geophysics; Geological Engineering; and Petroleum Engineering. Petroleum Engineering is now the largest program in the department and is sought by many prospective students, but it did not appear in the current name. This name change is proposed so that all three programs will appear in this new name:
Department of Geosciences and Geological and Petroleum Engineering.

Supporting
Documentation

Course Reviewer
Comments

Key: 1