



Campus Curricula Committee Meeting Agenda

September 29, 2015

12:30-2:00 p.m., 106B Parker Hall

Experiential Learning Requirement

Review of submitted Degree Change forms:

File #237.13 Materials Science and Engineering: Biomedical Engineering Minor

File #38.5 Economics: Economics BA

File #39.8 Economics: Economics BS

Review of submitted Course Change forms:

File #776.1 Aerospace Engineering 3131: Aerodynamics I

File #73.1 Aerospace Engineering 5169: Introduction to Hypersonic Flow

File #2454.4 Computer Engineering 5410: Introduction to Computer Communication Networks

File #1304.1 Computer Science 4096: Software Systems Development I

File #2541.1 Education 2221: Teaching Math in Elementary and Middle Schools

File #2400.1 Education 2222: Geometric Concepts for Elementary Teachers

File #2109.1 Engineering Management 5212: Intelligent Investing

File #32.4 English 2560: Technical Marketing Communication

File #2569.1 Geophysics 4231: Seismic Interpretation

File #768.6 Geophysics 5202: Exploration and Development Seismology

File #1008.4 Geophysics 5261: Computational Geophysics

File #274.1 Geophysics 6211: Advanced Seismic Interpretation

File #1191.1 Geophysics 6241: The Theory of Elastic Waves

File #2491.1 History 4097: Senior Project

File #2390.1 IS&T 4680: Introduction to Web and New Media Studies

File #340.1 Math 2222: Calculus with Analytic Geometry III

File #604.1 Mechanical Engineering 2340: Statics and Dynamics

File #22.1 Mechanical Engineering 2350: Engineering Mechanics-Dynamics

File #765.1 Mechanical Engineering 2519: Thermodynamics

File #517.1 Mechanical Engineering 3313: Machine Dynamics

File #1286.1 Mechanical Engineering 3411: Modeling and Analysis of Dynamic Systems

File #1851.1 Mechanical Engineering 3525: Heat Transfer

File #473.1 Mechanical Engineering 3653: Manufacturing

File #2378.1 Mechanical Engineering 3708: Machine Design I

File #1950.1 Mechanical Engineering 5653: Computer Numerical Control of Manufacturing Processes

File #154.1 Mechanical Engineering 5655: Manufacturing Equipment Automation



File #1752.1	Mechanical Engineering 6222: Theory of Elasticity
File #2035.1	Mechanical Engineering 6659: Advanced Topics in Design and Manufacturing
File #712.1	Mechanical Engineering 6663: Advanced Digital Design and Manufacturing
File #4240	Metallurgical Engineering 3340: Ferrous Microstructures
File #1290.1	Metallurgical Engineering 4450: Steelmaking
File #1455.1	Metallurgical Engineering 5450: Advanced Steelmaking
File #4073.4	Metallurgical Engineering 5620: Materials Behavior
File #4228	Nuclear Engineering 4345: Applied Mathematics in Nuclear Engineering
File #2005.1	Petroleum Engineering 1110: Introduction to Petroleum Engineering
File #990.1	Petroleum Engineering 4211: Advanced Drilling Technology
File #4246	Philosophy 3204: Ancient Philosophy
File #179.1	Political Science 2760: Contemporary Political Thought
File #4247	Technical Communication 3570: Writing in the Sciences
File #2442.1	Technical Communication 4085: Internship
File #1807.3	Technical Communication 4410: Theory and Practice of Technical Communication
File #1937.3	Technical Communication 4450: International Dimensions of Technical Communication

Review of submitted Experimental Course forms:

File #4238	Electrical Engineering 5001.001: High Frequency Sensors and Sensing Systems
File #4242	Explosives Engineering 6001.001: Special Explosive Applications
File #4245	Psychology 3001.001: Drugs and Behavior
File #4248	Russian 5001.001: Advanced Russian Phonetics and Intonation
File #4243	Statistics 6001.001: Statistical Methods for Bioinformatics
File #4244	Technical Communication 5001.001: Content Strategy

Program Change Request

Date Submitted: 08/20/15 5:02 pm

Viewing: **BIOMED-MI : Biomedical Engineering Minor**

File: 237.13

Last approved: 07/21/15 10:20 am

Last edit: 08/21/15 8:09 am

Changes proposed by: smiller

Catalog Pages

Using this

Program

[Materials Science and Engineering](#)

Start Term	Fall 2016 2015
Program Code	BIOMED-MI
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
10. kristyg

Approval Path

1. 08/20/15 9:12 pm
huebner: Approved for RMATSENG Chair
2. 08/21/15 8:03 am
Kaylon Buckner (kleb6b): Approved for CCC Secretary
3. 08/21/15 11:09 am
srafer: Approved for Engineering DSCC Chair

History

1. Oct 27, 2014 by rahaman
2. Nov 18, 2014 by Kaylon Buckner (kleb6b)
3. Jan 23, 2015 by pantaleoa
4. Jan 23, 2015 by pantaleoa
5. Jun 19, 2015 by pantaleoa
6. Jul 21, 2015 by

Biomedical Engineering Minor

Program Requirements and Description

Biomedical Engineering Minor

Minimum number of credit hours: 15 hours, consisting of 1 required course, **Cer Eng 3110: Introduction to Biomedical Engineering**, plus at least 4 courses from an approved list. At least 2 of the elective courses will be at or above the 4000 level. Core courses used toward a student's major degree requirements cannot be used for the minor degree program in BME. Elective courses used toward a student's major degree requirements or another minor degree program cannot be used unless they are approved by the biomedical engineering program committee.

Elective courses:

BIO SCI 2213	Cell Biology	3
BIO SCI 2219	Cell Biology Laboratory	1
BIO SCI 2223	General Genetics	3
BIO SCI 3313	Microbiology	3
BIO SCI 3319	Microbiology Lab	2
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
BIO SCI 3483	Biomedical Problems	3
CHEM ENG 4210	Biochemical Reactors	3
BIO SCI 4323	Molecular Genetics	3
BIO SCI 4353	Cancer Cell Biology	3
BIO SCI 4383	Toxicology	3
CHEM 4610	General Biochemistry	3
CHEM 4620	Metabolism	3
BIO SCI 5001	Special Topics	0-6
BIO SCI 5210/CER ENG 5210/MET ENG 5210/CHEM ENG 5200	Biomaterials I	3
BIO SCI 5240/MS&E 5210	Tissue Engineering I	3
CHEM ENG 5320	Introduction to Nanomaterials	3
BIO SCI 5323	Bioinformatics	3
STAT 5425	Introduction to Biostatistics	4

ENG MGT 5511	Technical Entrepreneurship	3
MET ENG 4099	Undergraduate Research ¹	0-6

¹ Undergraduate Research may be taken in any science or engineering discipline.

Justification for
request

Introductory course, Cer Eng 3110 has been approved.

Supporting
Documents

Course Reviewer

Comments

kleb6b (08/21/15 8:03 am): Update term

kleb6b (08/21/15 8:06 am): Change MS&E 5210 to 5240 per Scott Miller

kleb6b (08/21/15 8:09 am): No MS&E 5240

Key: 237
[Preview Bridge](#)

Program Change Request

Date Submitted: 09/04/15 1:51 pm

Viewing: **ECON-BA : Economics BA**

File: 38.5

Last approved: 07/20/15 10:47 am

Last edit: 09/04/15 1:51 pm

Changes proposed by: marcys

Catalog Pages

Using this

Program

[Economics](#)

Start Term Fall **2016** ~~2015~~

Program Code ECON-BA

Department Economics

Title

In Workflow

1. RECONOMI 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. kristyg

Approval Path

1. 09/08/15 10:51 am
gelles: Approved for
RECONOMI Chair
2. 09/08/15 10:53 am
Kaylon Buckner
(kleb6b): Approved
for CCC Secretary
3. 09/08/15 11:49 am
barryf: Approved for
Social Sciences
DSCC Chair

History

1. Aug 14, 2014 by
lahne
2. Jul 20, 2015 by
pantaleoa

Economics BA

Program Requirements and Description

Bachelor of Arts Economics

In addition to the general university requirements for a bachelor of arts degree, a student must complete:

1. [ECON 1100](#), [ECON 1200](#), [ECON 2100](#) and [ECON 2200](#) with a minimum grade of "C" in each.
2. At least 18 additional hours of economics electives, **at or** above the **2000 200**-level, with a minimum grade of "C" in each.
3. [BUS 1210](#); [ENG MGT 130](#) and [ENG MGT 131](#); and [STAT 1115](#); or [ECON 1300](#); and [ECON 2300](#).

Bachelor of Arts Economics (Secondary Education Emphasis Area)

You may earn a B.A. degree in economics from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with the 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 **minor** advisor ~~for economics~~ in the economics 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 in all economics 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 of 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 in this emphasis area requires 129 credit hours. The required courses are provided below. A minimum grade of "C" is required by the department in all mathematics and statistics courses counted toward this degree.

Communications Skills: 9 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
SP&M S 1185	Principles Of Speech	3
Humanities: 6 semester hours		
Must include 6 hours from 2 of the following 3 areas: Art, Music or Theatre, Philosophy, Literature		6
Social Sciences: 12 semester hours		
HISTORY 1300	American History To 1877	3
or HISTORY 1310	American History Since 1877	
POL SCI 1200	American Government	3
PSYCH 1101	General Psychology	3
HISTORY 2110	World Regional Geography	3
Natural Sciences: 7 semester hours (including 1 lab)		

Physics or Geology w/Lab	4
BIO SCI 1113 General Biology	3
Mathematics: 3 semester hours	
MATH 1120 College Algebra	3-5
or MATH 1140 College Algebra	
or higher	
Professional Requirements: 26 semester hours	
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 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
Economics: 30 semester hours	
ECON 1100 Principles Of Microeconomics	3
ECON 1200 Principles Of Macroeconomics	3
ECON 2100 Intermediate Microeconomic Theory	3
ECON 2200 Intermediate Macroeconomic Theory	3
ECON 1300 Business And Economic Statistics I	3
or STAT 1115 Statistics For The Social Sciences I	
or STAT 3111 Statistical Tools For Decision Making	
or STAT 3113 Applied Engineering Statistics	
or STAT 3115 Engineering Statistics	
or STAT 3117 Introduction To Probability And Statistics	
ECON 2300 Economic and Business Applications	3
Econ Electives (3000 or 4000 level)	9
BUS 1210 Financial Accounting	3
Certification: 20 semester hours	
HISTORY 1100 Early Western Civilization	3

or HISTORY 1200	Modern Western Civilization	
HISTORY 2220	Making Of Modern Britain	3
or HISTORY 2222	The Making Of Modern France	
or HISTORY 2224	Making Of Modern Russia	
or HISTORY 2210	European Diplomatic History 1814 - Present	
or HISTORY 3120	Ancient Greece	
or HISTORY 3130	Medieval History I	
or HISTORY 3135	Medieval History II	
or HISTORY 3140	History Of Renaissance Thought	
or HISTORY 3230	Europe In The Age Of The French Revolution And Napoleon	
or HISTORY 3235	Foundations Of Contemporary Europe 1815-1914	
or HISTORY 3240	Contemporary Europe	
HISTORY 3320	Colonial America	3
or HISTORY 3325	Revolutionary America, 1754-1789	
or HISTORY 3340	Age Of Jefferson And Jackson	
or HISTORY 3345	Civil War And Reconstruction	
or HISTORY 3360	Recent United States History	
or HISTORY 3450	American Intellectual History II	
or HISTORY 3425	History Of The Old South	
or HISTORY 3426	History Of The Modern South	
or HISTORY 3430	History of the American West	
or HISTORY 3480	History Of Baseball	
or HISTORY 3440	20th Century Americans In Combat	
or HISTORY 3441	The United States In World War II	
or HISTORY 3442	The United States in Vietnam	
or HISTORY 3761	U.S. Diplomatic History to World War II	
or HISTORY 3762	American Diplomatic History Since World War II	
POL SCI 3760	The American Presidency	3

Justification for
request

Supporting
Documents

Course Reviewer
Comments

kleb6b (08/17/15 4:26 pm): Change effective term

barryf (08/19/15 12:35 pm): Rollback: In note 2, it references the "200" level. Should this be "2000" or "3000"? In the requirements, it references "200 or 300" level. What is expected there?

kleb6b (08/19/15 12:58 pm): Rollback: barryf (08/19/15 12:35 pm): Rollback: In note 2, it references the "200" level. Should this be "2000" or "3000"? In the requirements, it references "200 or 300" level. What is expected there?

barryf (09/01/15 8:31 am): Rollback: Sorry I missed it earlier, but the Econ Electives are specified as 200 or 300 level. I suspect they mean 3000 or 4000 level, but it should be fixed.

kleb6b (09/01/15 8:32 am): Rollback: Per Dr. Flachsbart:Econ Electives are specified as 200 or 300 level. I suspect they mean 3000 or 4000 level, but it should be fixed.

Key: 38

[Preview Bridge](#)

Program Change Request

Date Submitted: 08/21/15 10:46 am

Viewing: **ECON-BS : Economics BS**

File: 39.8

Last approved: 05/28/15 10:51 am

Last edit: 08/21/15 10:46 am

Changes proposed by: marcys

Catalog Pages

Using this

Program

[Economics](#)

Start Term Fall **2016** ~~2015~~

Program Code ECON-BS

Department Economics

Title

In Workflow

1. RECONOMI 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. kristyg

Approval Path

1. 08/21/15 11:47 am
gelles: Approved for
RECONOMI Chair
2. 08/21/15 11:55 am
Kaylon Buckner
(kleb6b): Approved
for CCC Secretary
3. 09/08/15 11:50 am
barryf: Approved for
Social Sciences
DSCC Chair

History

1. May 28, 2015 by
pantaleoa
2. May 28, 2015 by
pantaleoa

Economics BS

Program Requirements and Description

Bachelor of Science Economics

In Economics, the Bachelor of Science degrees consist of 120 credit hours. First, all undergraduate students in Economics are required to complete a prescribed General Education Requirements Core that corresponds to the recommendations of the Missouri State Coordinating Board for Higher Education and consists of 42 credit hours in the areas of Individual Expression, Natural Systems, and Human Institutions. In addition, all undergraduate students are required to complete a 39 credit hour core consisting of courses in Information Technology, Management, Quantitative Skills, and Communication Skills. A minimum grade of "C" is required for courses in both the Information Technology and the Management areas. Finally, each degree includes 19 credit hours of free electives.

The remaining 27 credit hours of the required 120 credit hours for the Economics degree are divided into a prescribed 18 credit hour degree core and 9 credit hours of specific degree electives. A minimum grade of "C" is required in these courses. The Economics degree requires courses in advanced Micro, Macro and Statistics. The electives for this degree consist of courses from areas such as Law and Economics, Money and Banking, Energy Economics and E-Commerce.

Freshman Year			
First Semester	Credits	Second Semester	Credits
ENGLISH 1120 ¹	3	PSYCH 1101	3
MATH 1140	3	MATH 1212	4
Free Electives	3	History	3
BIO SCI 1113 , or 2223 , or 2233 , or 2263	3	IS&T 1750	3
Lab w/Living or Physical Science Course	1	IS&T 1750	3
		ECON 1100 or 1200 ⁴	3
	13		16
Sophomore Year			
First Semester	Credits	Second Semester	Credits
BUS 1110	3	BUS 1210	3
SP&M S 1185	3	ECON 1100 or 1200 ⁴	3
SP&M S 1185	3	Chemistry, Geol, Ge Eng, or Physics	3
STAT 3111	3	ART 1180 , or 1185 , or MUSIC 1150 , or THEATRE 1190	3
IS&T 1551	3	Free Electives	3
IS&T 1551	3		
ENGLISH 1211 , or 1212 , or 1231 , or 1221 , or 1222 , or 2230 , or 1223	3		
	15		15
Junior Year			
First Semester	Credits	Second Semester	Credits

ENGLISH 1600	3	SP&M S 2184	3
FINANCE 2150	3	SP&M S 2181	3
ECON 2100 ⁴	3	ECON 2200 ⁴	3
POL SCI 1200	3	Emphasis Area Electives ²	9
ECON 2300	3		
	15		15
Senior Year			
First Semester	Credits	Second Semester	Credits
ENGLISH 2560	3	BUS 4980 ¹	2
Culture, Sociology, Religion ³	3	Free Electives	13
BUS 4970 ¹	4	ECON 4860	3
Emphasis Area Electives ²	9		
	15		16
Total Credits: 120			

¹ In-Major Writing Intensive

² Economics Emphasis Electives 18 hours of which 12 hours must be Economics to be selected from [ECON 2114](#), [ECON 3810](#), [ECON 3880](#) or at or above 3000 level Econ Lecture course and accumulate 6 hours from the following [PSYCH 4700](#), [PSYCH 4601](#), [PSYCH 4602](#) or any 2000 or 3000 level Business Lecture courses.

³ [ECON 3830](#), [ENGLISH 2242](#), [ENGLISH 2245](#), [ENGLISH 2410](#), [ENGLISH 3215](#), [ENGLISH 4290](#), Foreign Language Beyond Second Semester, [HISTORY 3321](#), [PHILOS 3225](#), [PHILOS 3235](#), [PHILOS 1175](#), [PHILOS 4340](#), Any Political Science, [PSYCH 4600](#), [PSYCH 4992](#), Any Sociology, [SP&M S 3235](#).

⁴ A Grade of "C" or better is required for [ECON 1100](#), [ECON 1200](#), [ECON 2100](#), [ECON 2200](#), and [ECON 2300](#).

⁵ **3000-level or 4000-level.**

Justification for
request

The courses Bus 4970 and Bus 4980 are a Capstone sequence focused heavily on business students and business applications. Econ 4860 - Problems in Economic Policy is a Capstone course tailored more closely to the needs of economic majors. In particular, we will cover areas of economic research and problems associated with economic policy decisions.

Supporting
Documents

Course Reviewer
Comments

kleb6b (06/01/15 9:55 am): Rollback: Per request from Marcy Scott

kleb6b (06/01/15 3:35 pm): Rollback: Fix 3-digit course numbers in the footnotes

barryf (08/19/15 12:39 pm): Rollback: Footnote 2 references 200 and 300 level. What levels are appropriate under the new numbering scheme?

kleb6b (08/19/15 12:59 pm): Rollback: barryf (08/19/15 12:39 pm): Rollback: Footnote 2 references 200 and 300 level. What levels are appropriate under the new numbering scheme?

Key: 39

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/06/15 12:49 pm

Viewing: **AERO ENG 3131 : Aerodynamics I**

File: 776.1

Last edit: 09/08/15 10:04 am

Changes proposed by: isaac

Programs

referencing this
course

[AE ENG-BS: Aerospace Engineering BS](#)

[AE ENG-MI: Aerospace Engineering Minor](#)

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 3171 : Aerodynamics II](#)

[AERO ENG 3361 : Flight Dynamics and Control](#)

[AERO ENG 4133 : Introduction to Aerothermochemistry](#)

[AERO ENG 4882 : Experimental Methods in Aerospace Engineering I](#)

[AERO ENG 5131 : Intermediate Thermofluid Mechanics](#)

[AERO ENG 5570 : Plasma Physics I](#)

[AERO ENG 5715 : Concurrent Engineering](#)

[MECH ENG 5131 : Intermediate Thermofluid Mechanics](#)

[MECH ENG 5570 : Plasma Physics I](#)

[MECH ENG 5715 : Concurrent Engineering](#)

[NUC ENG 4370 : Plasma Physics I](#)

[NUC ENG 5370 : Plasma Physics I](#)

[PHYSICS 4543 : Plasma Physics I](#)

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. Ishelton

11. Peoplesoft

Approval Path

1. 09/06/15 5:14 pm
drallmei:

Approved for
RMECHENG Chair

2. 09/08/15 8:26 am
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary

Requested	Spring 2016 Fall 2014
Effective Change Date	
Department	Mechanical & Aerospace Engineering
Discipline	Aerospace Engineering (AERO ENG)
Course Number	3131
Title	Aerodynamics I
Abbreviated Course Title	Aerodynamics I

3. 09/11/15 9:09 am
sraper: Approved
for Engineering
DSCC Chair

Catalog

Description

A study of the fundamental concepts of fluid mechanics as applied to aerodynamic applications with both differential and control volume analysis. Theory and application of viscous and inviscid incompressible flow including boundary layer theory and two dimensional airfoil theory.

Prerequisites

A grade of "C" or better in each of Aero Eng 2861, Math 1214, 1215, **2222** ~~2222~~, ~~Physics 1135~~, and **Physics 1135**. ~~Mech-Eng 2519~~.

Field Trip

Statement

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

Required for Majors	Yes No
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Elective for Majors	No
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Justification for
change:

Aero Eng 3131 topics do not substantially require ME 2159. Many students get waivers for it.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

sraper (09/08/15 10:04 am): Should be required for major. Checked catalog to verify.

Key: 776

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/06/15 1:00 pm

Viewing: **AERO ENG 5169 : Introduction to Hypersonic Flow**

File: 73.1

Last edit: 09/08/15 8:27 am

Changes proposed by: isaac

Programs
referencing this
course

[MC ENG-BS: Mechanical Engineering BS](#)

Requested **Spring 2016** ~~Fall 2014~~
Effective Change
Date

Department Mechanical & Aerospace Engineering

Discipline Aerospace Engineering (AERO ENG)

Course Number 5169

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. Ishelton
11. Peoplesoft

Approval Path

1. 09/06/15 5:15 pm
drallmei:
Approved for
RMECHENG Chair
2. 09/08/15 8:27 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 09/11/15 9:10 am
 scraper: Approved
 for Engineering
 DSCC Chair

Introduction to Hypersonic Flow

Abbreviated Intro to Hypersonic Flow
 Course Title

Catalog

Description

A study of the basic principles of hypersonic flow. Inviscid and viscous hypersonic flow. Application of numerical methods. High temperature flow. Consideration of real gas and rarefied flow. Applications in aero-dynamic heating and atmospheric entry.

Prerequisites

Aero Eng **3171**. ~~3171 or Mech Eng 5131 or Aero Eng 5131~~

Field Trip

Statement

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

Required for	No
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Majors

Elective for	Yes No
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Majors

Justification for

change:

Knowledge of most of the topics in AE3171 are needed in AE5169. The other currently listed pre-requisite courses do not have significant coverage of compressible flow.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 73
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 4:37 pm

Viewing: **COMP ENG 5410 : Introduction to
Computer Communication Networks**

File: 2454.4

Last approved: 02/09/15 3:18 am

Last edit: 08/28/15 2:14 pm

Changes proposed by: stanleyj

Catalog Pages
referencing this
course

[Systems Engineering](#)

Programs
referencing this
course

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

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

Other Courses
referencing this
course

In The Prerequisites:

[COMP ENG 5420 : Introduction to Network Security](#)

[COMP ENG 6430 : High Speed Networks](#)

[COMP ENG 6440 : Network Performance Analysis](#)

[COMP SCI 6303 : Pervasive Computing](#)

[COMP SCI 6602 : Network Performance Analysis](#)

In Workflow

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

Approval Path

1. 08/28/15 2:11 pm
Daryl Beetner
(daryl): Approved
for RELECENG
Chair
2. 08/28/15 2:14 pm
Kaylon Buckner
(kleb6b):
Approved for CCC

Requested **Spring 2016** ~~Fall 2015~~
Effective Change
Date
Department Electrical and Computer Engineering
Discipline Computer Engineering (COMP ENG)
Course Number 5410
Title

Secretary

3. 09/04/15 9:27 am
craper: Approved
for Engineering
DSCC Chair

History

1. Feb 9, 2015 by
stanleyj (2454.1)

Introduction to Computer Communication Networks

Abbreviated Intro to Comm Networks
Course Title

Catalog

Description

Design of computer networks with emphasis on network architecture, protocols and standards, performance considerations, and network technologies. Topics include: LAN, MAN, WAN, congestion/flow/error control, routing, addressing, broadcasting, multicasting, switching, and internetworking. A modeling tool is used for network design and simulation.

Prerequisites

Comp Eng 3150 or computer hardware **competency and Stat 3117 or equivalent.**
~~competency.~~

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
change:

In this course, the mathematical foundation for network theory is heavily reliant on stochastic analysis. The prime example, used repeatedly in various forms throughout the course, is determining the likelihood of successful communication. The addition of Stat 3117 or equivalent as a prerequisite provides students with the necessary calculus-based statistics background.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2454

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/25/15 4:18 pm

Viewing: **COMP SCI 4096 : Software Systems Development I**

File: 1304.1

Last edit: 08/25/15 4:22 pm

Changes proposed by: tauritzd

Programs
referencing this
course

[CMP SC-BS: Computer Science BS](#)

Other Courses
referencing this
course

In The Prerequisites:

[COMP SCI 4097 : Software Systems Development II](#)

Requested Effective Change Date	Spring 2016 Fall 2014
Department	Computer Science
Discipline	Computer Science (COMP SCI)
Course Number	4096
Title	

In Workflow

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

Approval Path

1. 08/25/15 4:21 pm
Sajal Das (sdas):
Approved for
RCOMPSCI Chair
2. 08/25/15 4:23 pm
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 09/11/15 8:34 am

imorgan:

Approved for

Sciences DSCC

Chair

Software Systems Development I

Abbreviated Software Syst Developmnt
Course Title

Catalog

Description

Class members will work in small teams to develop a complete software system beginning with end-user interviews and concluding with end-user training.

Prerequisites

100 credit hours completed and a A-"C" or better grade in **both** Comp Sci 3100 **and one of Phil 3225, Phil 3235, Phil 4340, or Phil 4368.** ~~and 100 credit hours completed.~~

Field Trip

Statement

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

Total: 3

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

Elective for No
Majors

Justification for
change:

This will force students to take ethics before rather than after this CAPSTONE course, facilitating the application of ethics in this CAPSTONE course.

Semesters
previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1304
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/12/15 2:26 pm

Viewing: **EDUC 2221 : Teaching Math in ~~in~~
Elementary and ~~And~~ Middle Schools**

File: 2541.1

Last edit: 09/11/15 9:07 am

Changes proposed by: welchms

Requested	Spring 2016 Fall 2014
Effective Change	
Date	
Department	Arts, Languages, & Philosophy
Discipline	Education (EDUC)
Course Number	2221
Title	

In Workflow

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

Approval Path

1. 08/12/15 3:01 pm
lance: Approved for RPHILOSO Chair
2. 08/12/15 3:24 pm
Kaylon Buckner (kleb6b):
Approved for CCC

Secretary

3. 08/12/15 4:38 pm

ivliyeva:

Approved for Arts
& Humanities

DSCC Chair

Teaching Math ~~in~~ ~~in~~ Elementary ~~and~~ ~~And~~ Middle Schools

Abbreviated Tch Math Elem & Mid Sch

Course Title

Catalog

Description

The course presents an overview of how children learn mathematics, various techniques in teaching mathematics, and examples of applying these techniques to specific mathematical concepts (such as geometry, measurement, basic operations, statistics and probability, etc.).

Prerequisites

~~Educ 1040 or~~ Math 1120 or 1140.

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:

EDUC 1140 is no longer offered as a course and as a result not a prerequisite.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

~~WITH MATH 3921~~ - Course Not Found

MATH 3921-- Teaching Math In Elementary And Middle Schools

Course Reviewer

Comments

Key: 2541

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/12/15 2:26 pm

Viewing: **EDUC 2222 : Geometric Concepts for
~~For~~Elementary Teachers**

File: 2400.1

Last edit: 09/11/15 9:08 am

Changes proposed by: welchms

Requested	Spring 2016 Fall 2014
Effective Change	
Date	
Department	Arts, Languages, & Philosophy
Discipline	Education (EDUC)
Course Number	2222
Title	

In Workflow

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

Approval Path

1. 08/12/15 3:02 pm
lance: Approved for RPHILOSO Chair
2. 08/12/15 3:24 pm
Kaylon Buckner (kleb6b):
Approved for CCC

Secretary

3. 08/12/15 4:38 pm

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

Geometric Concepts ~~for~~ **for** Elementary Teachers

Abbreviated Geom Concepts Elem Tch

Course Title

Catalog

Description

The course covers methods of teaching the study of points, lines, polygons, similarity, congruence, constructions, and proof in Euclidean Plane Geometry. Transformational geometry and trigonometry are introduced to elementary teachers.

Prerequisites

~~Educ 1040 or~~ Math 1120 or 1140.

Field Trip

Statement

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

Total: 3

Required for
Majors NoElective for
Majors NoJustification for
change:

EDUC 1140 is no longer offered as a course and as a result not a prerequisite.

Semesters

previously
offered as an
experimental
course

Co-Listed

Courses:

~~WITH MATH 3922 - Course Not Found~~

MATH 3922-- Geometric Concepts For Elementary Teachers

Course Reviewer

Comments

Key: 2400

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 10:13 am

Viewing: **ENG MGT 5212 : Intelligent Investing**

File: 2109.1

Last edit: 08/27/15 12:22 pm

Changes proposed by: sraper

Requested **Spring 2016** ~~Fall 2014~~

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5212

Title

In Workflow

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

Approval Path

1. 08/27/15 12:21
pm
Suzanna Long
(longsuz):
Approved for
RENGMNGT Chair
2. 08/27/15 12:22
pm

Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary
3. 08/30/15 10:40
am
craper: Approved
for Engineering
DSCC Chair

Intelligent Investing

Abbreviated Intelligent Investing
Course Title

Catalog

Description

An overview of the essential elements of intelligent investing. Coverage includes stocks, bonds, exchange traded funds, mutual funds, stock screening, fundamental and technical analysis, valuation, market and industry analysis, macroeconomic indicators, investing strategies, and portfolio construction. ~~In this course we examine methods and tools, which support building a personal portfolio that leads to long-term wealth for the owner. The approach is based on the teachings of Benjamin Graham and Warren Buffet.~~

Prerequisites

Senior or Graduate Standing

Field Trip

Statement

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0
Total: 3				
Required for Majors	No			
Elective for	Yes No			

Majors

Justification for

change:

The prerequisite change is to have the course be more inline with other similar 5000-level EMSE department courses that are meant for graduate and upper-level undergraduate students. The existing level of content in the course is appropriate for senior level and higher.

The course description change is to provide more detail as to the specific techniques that are covered while using the teachings of Warren Buffet and Benjamin Graham (which may be unknown to the student), as well other related investment approaches/techniques.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2109

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/26/15 9:51 pm

Viewing: **ENGLISH 2560 : Technical Marketing Communication**

File: 32.4

Last approved: 09/29/14 4:09 am

Last edit: 08/27/15 8:06 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](#)

[TCH COM-BS: Technical Communication BS](#)

[TCH COM-MI: Technical Communication Minor](#)

[WRTG-MI: Writing Minor](#)

Other Courses
referencing this
course

In The Catalog Description:

[TCH COM 2560 : Technical Marketing Communication](#)

In Workflow

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

Approval Path

1. 08/26/15 9:53 pm
kswenson:
Approved for
RENGLISH Chair
2. 08/27/15 8:06 am
Kaylon Buckner
(kleb6b):
Approved for CCC

Requested Spring **2016** ~~2015~~
Effective Change
Date
Department English and Technical Communication
Discipline English (ENGLISH)
Course Number 2560
Title

Secretary

3. 08/27/15 10:57
am

ivliyeva:

Approved for Arts
& Humanities
DSCC Chair

History

1. Sep 29, 2014 by
kswenson (32.1)

Technical Marketing Communication

Abbreviated Tech Com Marketing
Course Title

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.

Prerequisites

ENGLISH 1600 or TCH COM **1600 or ENGLISH 1160.** ~~1600.~~

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:

English 1160, in its current format, is an acceptable prerequisite for 2560.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

TCH COM 2560 - Technical Marketing Communication

Course Reviewer

Comments

Key: 32

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 12:53 pm

Viewing: **GEOPHYS 4231 : Seismic Interpretation**

File: 2569.1

Last edit: 09/11/15 8:42 am

Changes proposed by: liukh

Programs
referencing this
course

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

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

Requested Fall **2016** ~~2014~~
Effective Change
Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geophysics (GEOPHYS)

Course Number 4231

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/27/15 8:04 pm
ikuenobe:
Approved for
RGEOENG Chair
2. 08/28/15 11:47
am
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 09/11/15 8:42 am

imorgan:

Approved for
Sciences DSCC
Chair

Seismic Interpretation

Abbreviated Seismic Interpretation
Course Title

Catalog

Description

An introduction to 2-D/3-D seismic structural interpretation, stratigraphic interpretation, reservoir identification and evaluation, and horizon and formation attributes. The students are expected to master interactive 2-D/3-D seismic interpretation software packages that are routinely used in the petroleum industry.

Prerequisites

Either Math 1208 or Math 1214 and either Geology 1110 or Geo Eng 1150.

~~Geophys 2210 or 4251.~~

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for **Yes**~~No~~
Majors

Justification for
change:

Junior level students have acquired adequate skills to take this class.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

imorgan (09/11/15 8:42 am): After discussion with the department representative and approval of the DSCC, the prerequisite has been changed from "Junior level standing or higher".

Key: 2569

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 12:55 pm

Viewing: **GEOPHYS 5202 : Exploration and Development Seismology**

File: 768.6

Last approved: 02/23/15 3:50 am

Last edit: 09/11/15 8:40 am

Changes proposed by: liukh

Programs
referencing this
course

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

Other Courses
referencing this
course

In The Prerequisites:

[GEOPHYS 5231 : Seismic Data Processing](#)

Requested **Spring 2016** ~~Fall 2015~~
Effective Change
Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geophysics (GEOPHYS)

Course Number 5202

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/27/15 8:04 pm
ikuenobe:
Approved for
RGEOENG Chair
2. 08/28/15 11:47
am
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 09/11/15 8:41 am

imorgan:

Approved for
Sciences DSCC
Chair

History

1. Feb 9, 2015 by
liukh (768.1)
2. Feb 23, 2015 by
kleb6b (768.5)

Exploration and Development Seismology

Abbreviated Expl & Devlp Seismology
Course Title

Catalog

Description

Principles of reflection seismology as applied to the delineation of geologic structures and the determination of stratigraphy and lithology. Emphasis on both the capabilities and limitations of the seismic method. The laboratory utilizes both modeled and actual seismic data.

Prerequisites

Either Math 1208 or Math 1214 and either Geology 1110 or Geo Eng 1150. ~~Math 2222.~~

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for
Majors

Yes ~~No~~

Justification for
change:

Junior level students have acquired adequate skills to take this class.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

imorgan (09/11/15 8:40 am): After discussion with the department representative and approval of the DSCC, the prerequisite has been changed from "Junior level standing or higher".

Key: 768

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 12:44 pm

Viewing: **GEOPHYS 5261 : Computational
Geophysics**

File: 1008.4

Last approved: 02/09/15 3:19 am

Last edit: 08/27/15 12:44 pm

Changes proposed by: liukh

Programs
referencing this
course

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

Requested Fall **2016** ~~2015~~
Effective Change
Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Geophysics (GEOPHYS)

Course Number 5261

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/27/15 8:05 pm
ikuenobe:
Approved for
RGEOENG Chair
2. 08/28/15 11:47
am
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 09/11/15 8:34 am

imorgan:

Approved for
Sciences DSCC
Chair

History

1. Feb 9, 2015 by
patty (1008.1)

Computational Geophysics

Abbreviated Computational Geophysics
Course Title

Catalog

Description

Scientific programming in a UNIX/Linux environment, with emphasis on solving geophysical problems such as linear and nonlinear inversion, spectral analysis, seismicity, seismic wave attenuation, shear-wave splitting, and seismic tomography.

Prerequisites

Geophys **3210**. ~~2210~~.

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for Yes
Majors

Justification for

change:

Geophys 2210 has been renumbered to 3210.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1008

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 1:05 pm

Viewing: **GEOPHYS 6211 : Advanced Seismic Interpretation**

File: 274.1

Last edit: 09/11/15 8:33 am

Changes proposed by: liukh

Requested Fall **2016** ~~2014~~

Effective Change

Date

Department Geosciences and Geological and Petroleum Engineering

Discipline Geophysics (GEOPHYS)

Course Number 6211

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/27/15 8:05 pm
ikuenobe:
Approved for
RGEOENG Chair
2. 08/28/15 11:47 am
Kaylon Buckner (kleb6b):
Approved for CCC

Secretary

3. 09/11/15 8:33 am

imorgan:

Approved for

Sciences DSCC

Chair

Advanced Seismic Interpretation

Abbreviated Adv Seismic Interpretation

Course Title

Catalog

Description

The integration of geologic information, well log data and seismic information for interpreting the earth's subsurface using advanced 3-D seismic interpretation software packages. Reservoir identification and evaluation as well as horizon and formation attributes are included.

Prerequisites

Geophys **3210** ~~2210~~ or Geophys **5202**. ~~4251~~.

Field Trip

Statement

Credit Hours

LEC: **2-3**LAB: **1-0**

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes ~~No~~

Majors

Justification for

change:

Geophys 2210 has been renumbered to 3210.

Geophys 4231 has been renumbered to 5202.

A lab section is added to conduct seismic interpretation using advanced/industry leading 3-D seismic software packages.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

imorgan (09/11/15 8:33 am): Geophys 4231 in the justification should read Geophys 4251.

Key: 274

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/27/15 1:52 pm

Viewing: **GEOPHYS 6241 : The Theory of ~~Of~~ Elastic Waves**

File: 1191.1

Last edit: 09/11/15 9:15 am

Changes proposed by: liukh

Requested **Spring 2016** ~~Fall 2014~~

Effective Change

Date

Department Geosciences and Geological and Petroleum Engineering

Discipline Geophysics (GEOPHYS)

Course Number 6241

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/27/15 8:06 pm
ikuenobe:
Approved for
RGEOENG Chair
2. 08/28/15 11:47 am
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 09/11/15 8:32 am

imorgan:

Approved for

Sciences DSCC

Chair

The Theory ~~of~~ ~~Of~~ Elastic WavesAbbreviated Theory ~~of~~ ~~Of~~ Elastic Waves

Course Title

Catalog

Description

A mathematical study of elastic waves in the layered earth.

Prerequisites

Geophys ~~3210. 5221.~~

Field Trip

Statement

Credit Hours

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

~~Yes~~ ~~No~~

Majors

Justification for

change:

Geophys 3210 covers a broad range of materials needed for this class. It is more appropriate than Geophys 5221 as a prerequisite for this class.

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1191
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/21/15 2:05 pm

Viewing: **HISTORY 4097 : Senior Project Thesis**

File: 2491.1

Last edit: 08/21/15 2:05 pm

Changes proposed by: dewittp

Programs
referencing this
course

[HIST-BA: History BA](#)

Requested	Spring 2016 Fall 2014
Effective Change Date	
Department	History and Political Science
Discipline	History (HISTORY)
Course Number	4097
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. Ishelton
11. Peoplesoft

Approval Path

1. 08/21/15 2:09 pm
sfogg: Approved
for RHISTORY
Chair
2. 08/21/15 2:18 pm
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 08/21/15 5:10 pm

ivliyeva:

Approved for Arts
& Humanities

DSCC Chair

Senior **Project Thesis**Abbreviated Senior **Project Thesis**

Course Title

Catalog

Description

History majors will complete an extended research **project paper** under the supervision of a department faculty member.

Prerequisites

History 2790 and senior history majors only.

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 name of course from Senior Thesis to Senior Project to better reflect the variations of format, including but not limited to a lengthy paper, that the capstone course for history majors can take.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2491

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/20/15 4:07 pm

Viewing: **IS&T 4680 : Introduction to Web and New Media Studies**

File: 2390.1

Last edit: 08/20/15 4:07 pm

Changes proposed by: barryf

Programs
referencing this
course

[HCI-MI: Human-Computer Interaction and User Experience
Minor](#)

Requested **Spring 2016** ~~Fall 2014~~
Effective Change
Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 4680

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/20/15 4:20 pm

siauk: Approved

for RINFSCTE

Chair

2. 08/20/15 4:22 pm

Kaylon Buckner

(kleb6b):

Approved for CCC

Secretary

3. 09/01/15 8:26 am
barryf: Approved
for Social
Sciences DSCC
Chair

Introduction to Web and New Media Studies

Abbreviated Intro to Web Studies
Course Title

Catalog

Description

The course covers web culture, including topics such as social media, citizen journalism, crowd intelligence, privacy, and copyright. ~~Students cannot receive credit for both this course and IS&T 5680 (Advanced Web and New Media Studies).~~

Prerequisites

Junior or Senior 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:

Description in error. There is no 5680 course. It was planned, but 6680 was created, instead, so this statement isn't needed.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2390
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/03/15 3:49 pm

Viewing: **MATH 2222 : Calculus with ~~With~~**
Analytic Geometry III

File: 340.1

Last edit: 09/11/15 9:31 am

Changes proposed by: imorgan

Programs

referencing this
course

[AE ENG-BS: Aerospace Engineering BS](#)

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

[ARC ENG-BS: Architectural Engineering BS](#)

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

[CHEM-BS: Chemistry BS](#)

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

[CR ENG-BS: Ceramic Engineering BS](#)

[CV ENG-BS: Civil Engineering BS](#)

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

[ENG MG-BS: Engineering Management BS](#)

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

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

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

[MC ENG-BS: Mechanical Engineering BS](#)

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

[MT ENG-BS: Metallurgical Engineering BS](#)

[NU ENG-BS: Nuclear Engineering BS](#)

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

[PHYSIC-BS: Physics BS](#)

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/20/15 10:49
am
sclark: Approved
for RMATHEMA
Chair

2. 08/20/15 10:50
am
Kaylon Buckner

Other Courses
referencing this
course

In The Prerequisites:

[AERO ENG 2360 : Dynamics](#)

[CHEM 5420 : Elemental Quantum Chemistry](#)

[CHEM ENG 3110 : Chemical Engineering Heat Transfer](#)

[CIV ENG 3842 : Fundamentals of Building Systems](#)

[COMP SCI 5204 : Regression Analysis](#)

[ELEC ENG 5200 : Classical Optics](#)

[ENV ENG 3603 : Chemical Fundamentals Of Environmental Engineering](#)

[GEO ENG 5782 : Environmental and Engineering Geophysics](#)

[GEOLOGY 6211 : Geodynamics](#)

[GEOPHYS 3211 : Introduction To Geophysical Data Analysis](#)

[GEOPHYS 5202 : Exploration and Development Seismology](#)

[GEOPHYS 5241 : Advanced Electrical And Electromagnetic Methds In Geophysical Exp](#)

[GEOPHYS 5782 : Environmental and Engineering Geophysics](#)

[MATH 3103 : Matrix Algebra](#)

[MATH 3304 : Elementary Differential Equations](#)

[MATH 3329 : Elementary Differential Equations And Matrix Algebra](#)

[MATH 3940 : Mathematical Software Applications In The Classroom](#)

[MATH 4209 : Advanced Calculus I](#)

[MATH 5222 : Vector And Tensor Analysis](#)

[MATH 5940 : Mathematical Analysis For Secondary Teachers](#)

[MECH ENG 2360 : Dynamics](#)

[MECH ENG 5763 : Principles And Practice Of Computer Aided Design](#)

[NUC ENG 3103 : Interactions Of Radiation With Matter](#)

[PET ENG 6711 : Geodynamics](#)

[PHYSICS 2305 : Introduction To Modern Physics](#)

(kleb6b):

Approved for CCC

Secretary

3. 09/11/15 8:31 am

imorgan:

Approved for

Sciences DSCC

Chair

[PHYSICS 4503 : Classical Optics](#)[PHYSICS 4563 : Astrophysical Concepts](#)[PHYSICS 4615 : Physics For Secondary School Teachers](#)[STAT 3117 : Introduction To Probability And Statistics](#)[STAT 5346 : Regression Analysis](#)[STAT 5353 : Statistical Data Analysis](#)[STAT 5643 : Probability And Statistics](#)

Requested	Spring 2016 Fall 2014
Effective Change	
Date	
Department	Mathematics & Statistics
Discipline	Mathematics (MATH)
Course Number	2222
Title	Calculus with With Analytic Geometry III
Abbreviated	Calc with With Analy Geom III
Course Title	

Catalog

Description

An introduction to multivariable calculus. Vector valued functions, curves and surfaces in two and three dimensions, partial differentiation, multiple integration, line and surface integrals, the major theorems of vector calculus, and applications of these ideas are studied.

Prerequisites

Math 1215 or Math 1221 with a grade of "C" or better.

Field Trip

Statement

Credit Hours	LEC: 3 4	LAB: 1 0	IND: 0	RSD: 0
Total: 4				
Required for	Yes No			

Majors

Elective for No

Majors

Justification for

change:

This permits us to align Math 2222 more closely with Math 1214 and 1215 and to roll the Calculus Redesign into Math 2222.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 340

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:32 pm

Viewing: **MECH ENG 2340 : Statics and And
Dynamics**

File: 604.1

Last edit: 09/11/15 9:32 am

Changes proposed by: nisbett

Programs

referencing this

course

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

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

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

Other Courses

referencing this

course

In The Prerequisites:

[CIV ENG 3330 : Engineering Fluid Mechanics](#)

[EXP ENG 5713 : Demolition of Buildings and Structures](#)

[MIN ENG 3812 : Statics And Mechanics Of Rock Materials](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change

Date

Department

Mechanical & Aerospace Engineering

Discipline

Mechanical Engineering (MECH ENG)

Course Number

2340

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/28/15 3:36 pm
drallmei:

Approved for
RMECHENG Chair

2. 08/28/15 3:40 pm
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary

Title

3. 09/04/15 9:27 am
 scraper: Approved
 for Engineering
 DSCC Chair

Statics **and** ~~And~~ Dynamics

Abbreviated Statics **and** ~~And~~ Dynamics

Course Title

Catalog

Description

An introduction to the principles of mechanics pertaining to problems of equilibrium, motion, and acceleration in two dimensions. Particle and rigid body equilibrium and applications; general planar motion; force, mass, and acceleration; impulse/ momentum; work/energy. This course will not satisfy the prerequisite for Civ Eng 2210.

Prerequisites

A grade of "C" ~~Physics 1135~~ or better in Physics 1135 or 1111; preceded or accompanied by Math 2222. ~~prec. or acc. by Math 2222.~~

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:

Increase the preparation of the students.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 604

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:29 pm

Viewing: **MECH ENG 2350 : Engineering Mechanics-Dynamics**

File: 22.1

Last edit: 08/28/15 3:41 pm

Changes proposed by: nisbett

Programs

referencing this
course

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

[ARC ENG-BS: Architectural Engineering BS](#)

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

[CV ENG-BS: Civil Engineering BS](#)

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

[ENG MG-BS: Engineering Management BS](#)

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

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

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

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 5234 : Stability of Engineering Structures](#)

[CIV ENG 3330 : Engineering Fluid Mechanics](#)

[CIV ENG 5208 : Structural Dynamics](#)

[MECH ENG 5234 : Stability of Engineering Structures](#)

[MECH ENG 5254 : Variational Formulations Of Mechanics](#)

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/28/15 3:35 pm
drallmei:

Approved for
RMECHENG Chair

2. 08/28/15 3:41 pm
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary

Problems

3. 09/04/15 9:28 am
 scraper: Approved
 for Engineering
 DSCC Chair

Requested **Spring 2016** ~~Fall 2014~~
 Effective Change
 Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 2350

Title Engineering Mechanics-Dynamics

Abbreviated Engr Mechanics-Dynamics

Course Title

Catalog

Description

Application of the principles of mechanics to engineering problems of motion and acceleration. Topics include plane motion; force, mass and acceleration; work and energy; and impulse and momentum.

Prerequisites

A grade of "C" or better in each of Civ Eng 2200 and Math 2222.

Field Trip

Statement

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

Required for No
 Majors

Elective for No
 Majors

Justification for
 change:

Increase the preparation of students.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 22

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:50 pm

Viewing: **MECH ENG 2519 : Thermodynamics**

File: 765.1

Last edit: 08/28/15 2:50 pm

Changes proposed by: nisbett

Programs

referencing this
course

[AE ENG-BS: Aerospace Engineering BS](#)

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

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

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

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 3131 : Aerodynamics I](#)

[AERO ENG 3171 : Aerodynamics II](#)

[AERO ENG 5519 : Advanced Thermodynamics](#)

[MECH ENG 3131 : Thermofluid Mechanics I](#)

[MECH ENG 3521 : Applied Thermodynamics](#)

[MECH ENG 3525 : Heat Transfer](#)

[MECH ENG 4840 : Mechanical Instrumentation](#)

[MECH ENG 5519 : Advanced Thermodynamics](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/28/15 4:03 pm
drallmei:

Approved for
RMECHENG Chair

2. 08/31/15 8:21 am
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary

Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 2519

Title Thermodynamics

Abbreviated Thermodynamics

Course Title

3. 09/08/15 9:58 am
craper: Approved
for Engineering
DSCC Chair

Catalog

Description

Energy transformations and the relation of energy to the status of matter.
Fundamental laws, concepts, and modes of analysis which underlie all applications
of energy conversion in engineering.

Prerequisites

A grade of "C" or better in each of Comp Sci 1570 or 1970 or **1971 or 1972, 1971,**
Math 1214 (or 1208), 1215 (or 1221), 2222, and Physics 1135.

Field Trip

Statement

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

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

Elective for No
Majors

Justification for change:

Adding the MatLab course as a programming option.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 765
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:51 pm

Viewing: **MECH ENG 3313 : Machine Dynamics**

File: 517.1

Last edit: 08/28/15 2:51 pm

Changes proposed by: nisbett

Programs

referencing this
course

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

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 5313 : Intermediate Dynamics of Mechanical and Aerospace Systems](#)

[AERO ENG 5715 : Concurrent Engineering](#)

[AERO ENG 5758 : Integrated Product Development](#)

[MECH ENG 5313 : Intermediate Dynamics Of Mechanical And Aerospace Systems](#)

[MECH ENG 5449 : Robotic Manipulators And Mechanisms](#)

[MECH ENG 5702 : Synthesis Of Mechanisms](#)

[MECH ENG 5704 : Compliant Mechanism Design](#)

[MECH ENG 5715 : Concurrent Engineering](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change

Date

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 4:03 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/31/15 8:21 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

Department	Mechanical & Aerospace Engineering
Discipline	Mechanical Engineering (MECH ENG)
Course Number	3313
Title	Machine Dynamics
Abbreviated Course Title	Machine Dynamics

3. 09/08/15 9:58 am
srafer: Approved
for Engineering
DSCC Chair

Catalog

Description

Motion analysis using vector methods is considered for machine elements including linkages, cams, and gears. Dynamic force analysis methods are applied to balancing, flywheels, and single and multicylinder engines.

Prerequisites

A grade of "C" or better in each of Comp Sci 1570 or 1970 or **1971 or 1972, 1971,** Mech Eng 2360 (or Aero Eng 2360), Math 1214 (or 1208), 1215 (or 1221), 2222, and Physics 1135.

Field Trip

Statement

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

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

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

Justification for change:

Adding the MatLab course as a programming option.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 517

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:57 pm

Viewing: **MECH ENG 3411 : Modeling and Analysis of Dynamic Systems**

File: 1286.1

Last edit: 08/28/15 2:57 pm

Changes proposed by: nisbett

Programs
referencing this
course

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses
referencing this
course

In The Prerequisites:

[AERO ENG 5307 : Vibrations I](#)

[AERO ENG 5309 : Engineering Acoustics I](#)

[MECH ENG 4479 : Automatic Control Of Dynamic Systems](#)

[MECH ENG 5307 : Vibrations I](#)

[MECH ENG 5309 : Engineering Acoustics I](#)

[MECH ENG 5420 : Signal Processing for Instrumentation and Control](#)

Requested **Spring 2016** ~~Fall 2014~~
Effective Change
Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 4:03 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/31/15 8:21 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

Course Number 3411

Title

3. 09/08/15 9:58 am

 scraper: Approved
for Engineering
DSCC Chair

Modeling and Analysis of Dynamic Systems

Abbreviated Model Analysis Dyn Sys

Course Title

Catalog

Description

Concepts of modeling mechanical systems as linear systems are studied and applied to hydraulic, pneumatic, and electromechanical systems. Analysis techniques described include matrix formulations, Laplace transforms, and time domain response methods.

Prerequisites

A grade of "C" or better in each of Comp Sci 1570 or 1970 or **1971 or 1972, ~~1971,~~** Mech Eng 2360 (or Aero Eng 2360), Math 1214 (or 1208), 1215 (or 1221), 2222, 3304, Physics 1135, 2135.

Field Trip

Statement

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

Total: 3

Required for **Yes-~~No~~**
MajorsElective for No
MajorsJustification for
change:

Adding the MatLab course as a programming option.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1286

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:54 pm

Viewing: **MECH ENG 3525 : Heat Transfer**

File: 1851.1

Last edit: 08/28/15 2:54 pm

Changes proposed by: nisbett

Programs

referencing this
course

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 5525 : Intermediate Heat Transfer](#)

[ARCH ENG 5872 : Environmental Controls](#)

[MECH ENG 5523 : Transport Phenomena In Manufacturing Processes](#)

[MECH ENG 5525 : Intermediate Heat Transfer](#)

[MECH ENG 5566 : Solar Energy Technology](#)

[MECH ENG 5571 : Environmental Controls](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change
Date

Department

Mechanical & Aerospace Engineering

Discipline

Mechanical Engineering (MECH ENG)

Course Number

3525

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/28/15 4:03 pm
drallmei:

Approved for
RMECHENG Chair

2. 08/31/15 8:21 am
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary

Title

3. 09/08/15 9:58 am
srafer: Approved
for Engineering
DSCC Chair

Heat Transfer

Abbreviated

Heat Transfer

Course Title

Catalog

Description

Fundamental principles of heat transmission by radiation, conduction and convection; application of these principles to the solution of engineering problems.

Prerequisites

A grade of "C" or better in each of Comp Sci 1570 or 1970 or **1971 or 1972**, ~~1971~~,
Math 3304, Mech Eng 2519.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes~~No~~

Majors

Elective for

No

Majors

Justification for

change:

Adding the MatLab course as a programming option.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1851

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:27 pm

Viewing: **MECH ENG 3653 : Manufacturing**

File: 473.1

Last edit: 08/28/15 2:27 pm

Changes proposed by: nisbett

Programs

referencing this
course

[DSCMGMT-MI: Digital Supply Chain Mgt Minor](#)

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[ENG MGT 5516 : Integrated Product Development](#)

[MECH ENG 5653 : Computer Numerical Control Of
Manufacturing Processes](#)

[MECH ENG 5656 : Design For Manufacture](#)

[MECH ENG 5758 : Integrated Product Development](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change

Date

Department

Mechanical & Aerospace Engineering

Discipline

Mechanical Engineering (MECH ENG)

Course Number

3653

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. Ishelton

11. Peoplesoft

Approval Path

1. 08/28/15 3:35 pm
drallmei:

Approved for
RMECHENG Chair

2. 08/28/15 3:41 pm
Kaylon Buckner

(kleb6b):

Approved for CCC
Secretary

Title

3. 09/04/15 9:28 am
craper: Approved
for Engineering
DSCC Chair

Manufacturing

Abbreviated Manufacturing
Course Title

Catalog

Description

Advanced analytical study of metal forming and machining processes such as forging, rolling, extrusion, wire drawing and deep drawing; mechanics of metal cutting - orthogonal, turning, milling, cutting temperature, cutting tool materials, tool wear and tool life, and abrasive processes.

Prerequisites

Mech Eng 2653, **Civ Eng 2211**, and a grade of "C" or better in **Civ Eng** ~~Civ Eng~~ 2210.

Field Trip

Statement

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

Total: 3

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

Elective for No
Majors

Justification for
change:

Adding the materials testing lab to ensure students have covered the theoretical as well as experimental aspects of mechanics of materials.

Semesters
previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 473
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:41 pm

Viewing: **MECH ENG 3708 : Machine Design I**

File: 2378.1

Last edit: 08/28/15 2:41 pm

Changes proposed by: nisbett

Programs

referencing this
course

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses

referencing this
course

In The Prerequisites:

[AERO ENG 5212 : Introduction to Finite Element Analysis](#)

[AERO ENG 5758 : Integrated Product Development](#)

[AERO ENG 5760 : Probabilistic Engineering Design](#)

[MECH ENG 4761 : Engineering Design](#)

[MECH ENG 5212 : Introduction to Finite Element Analysis](#)

[MECH ENG 5656 : Design For Manufacture](#)

[MECH ENG 5708 : Rapid Product Design And Optimization](#)

[MECH ENG 5709 : Machine Design II](#)

[MECH ENG 5760 : Probabilistic Engineering Design](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change

Date

Department

Mechanical & Aerospace Engineering

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 4:04 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/31/15 8:22 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

Discipline Mechanical Engineering (MECH ENG)

Course Number 3708

Title

3. 09/08/15 9:58 am
craper: Approved
for Engineering
DSCC Chair

Machine Design I

Abbreviated Machine Design I

Course Title

Catalog

Description

Analysis of machine elements such as shafts, springs, screws, belts, bearings, and gears; analytical methods for the study of fatigue; comprehensive treatment of failure, safety, and reliability. Introduction to finite element methods in mechanical design.

Prerequisites

Mech Eng **2653**; ~~2653~~, accompanied or preceded by Mech Eng **2761**; **Met Eng 2110** or **Aero Eng 3877**; ~~2761~~, and a grade of "C" or ~~or~~ better in ~~each of~~ Civ **Eng 2210**. ~~Eng 2210, Met Eng 2110.~~

Field Trip

Statement

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

Total: 3

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

Elective for No
Majors

Justification for change:

Adding the Aero Eng materials course to accommodate dual AE/ME majors.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2378

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:37 pm

Viewing: **MECH ENG 5653 : Computer
Numerical Control of Manufacturing
Processes**

File: 1950.1

Last edit: 09/11/15 9:40 am

Changes proposed by: nisbett

Catalog Pages
referencing this
course

[Mechanical Engineering](#)

Programs
referencing this
course

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses
referencing this
course

In The Prerequisites:

[AERO ENG 5758 : Integrated Product Development](#)

[MECH ENG 6653 : Advanced Cnc Of Manufacturing Processes
& Engineering Metrology](#)

Requested **Spring 2016** ~~Fall 2014~~
Effective Change
Date

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 4:02 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/31/15 8:22 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

Department Mechanical & Aerospace Engineering
Discipline Mechanical Engineering (MECH ENG)
Course Number 5653

3. 09/08/15 9:58 am
srafer: Approved
for Engineering
DSCC Chair

Title

Computer Numerical Control ~~of~~ ~~of~~ Manufacturing Processes

Abbreviated Cmptr Num Cntrl Mfg Proc

Course Title

Catalog

Description

Fundamental theory and application of computer numerical controlled machine tools from the viewpoint of design principles, machine structural elements, control systems, and programming. Projects include manual and computer assisted part programming and machining.

Prerequisites

Preceded or accompanied by Mech Eng 3653.

Field Trip

Statement

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

Total: 3

Required for No

Majors

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

Majors

Justification for

change:

This is currently being allowed. Students that have taken the two courses concurrently over the years have done very well.

Semesters

previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1950
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:38 pm

Viewing: **MECH ENG 5655 : Manufacturing Equipment Automation**

File: 154.1

Last edit: 08/28/15 3:42 pm

Changes proposed by: nisbett

Catalog Pages
referencing this
course

[Mechanical Engineering](#)

Programs
referencing this
course

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

[MC ENG-BS: Mechanical Engineering BS](#)

Other Courses
referencing this
course

In The Prerequisites:

[MECH ENG 6655 : Modeling And Control Of Manufacturing Processes](#)

[MECH ENG 6659 : Advanced Topics In Design And Manufacturing](#)

Requested
Effective Change

Spring 2016 ~~Fall 2014~~

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 3:40 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/28/15 3:42 pm
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

Date

3. 09/04/15 9:28 am

Department Mechanical & Aerospace Engineering

craper: Approved

Discipline Mechanical Engineering (MECH ENG)

for Engineering

Course Number 5655

DSCC Chair

Title Manufacturing Equipment Automation

Abbreviated Manuf Equipment

Course Title Automation

Catalog

Description

Manufacturing automation at the equipment level. Topics include sensors, actuators, and computer interfacing for manufacturing equipment, dynamic modeling and control of manufacturing equipment, interpolation, coordinated motion control, kinematic and geometric error modeling, and runout.

Prerequisites

Preceded or accompanied by Mech Eng 4479 or equivalent. ~~Mech Eng 4479.~~

Field Trip

Statement

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

Total: 3

Required for No

Majors

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

Majors

Justification for

change:

The controls topics are covered towards the end of the semester.

Semesters

previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 154

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:34 pm

Viewing: **MECH ENG 6222 : Theory of Applied**
Linear-Elasticity

File: 1752.1

Last edit: 08/31/15 8:22 am

Changes proposed by: nisbett

Catalog Pages
referencing this
course

[Mechanical Engineering](#)

Other Courses
referencing this
course

In The Catalog Description:

[AERO ENG 6222 : Applied Linear Elasticity](#)

Requested **Spring 2016** ~~Fall 2014~~

Effective Change
Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 6222

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/29/15 9:45 am
drallmei:
Approved for
RMECHENG Chair
2. 08/31/15 8:22 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 09/08/15 9:58 am
srafer: Approved
for Engineering
DSCC Chair

Theory of ~~Applied Linear~~ Elasticity

Abbreviated **Theory of** ~~Applied Linear~~
Course Title Elasticity

Catalog

Description

Formulation and study of boundary-value problems in 2-D linear elastostatics: Equilibrium and compatibility. Stress function formulations in Cartesian and polar coordinates. Curved beam, wedge and plane contact problems. Dislocations and cracks. Thermoelasticity.

Prerequisites

CIV ENG **2210**. ~~2210~~, ~~Math 5325~~

Field Trip

Statement

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

Total: 3

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

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

Justification for change:

This is a first year graduate course in elasticity and will be taught with the engineering audience (AE/CE/ME) in mind. Dependence on previous knowledge of Solid Mechanics, Continuum Mechanics or Mathematics is being kept to minimum. The course should be readily intelligible to a student with undergraduate background

of one or two courses in elementary Mechanics of Materials and a rudimentary knowledge of partial differentiation and ODE. Emphasis is placed on engineering applications of elasticity.

Semesters
previously
offered as an
experimental
course

Co-Listed

Courses:

AERO ENG 6222 - Applied Linear Elasticity

Course Reviewer

Comments

Key: 1752

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:39 pm

Viewing: **MECH ENG 6659 : Advanced Topics in
~~In~~-Design ~~And~~ Manufacturing**

File: 2035.1

Last edit: 09/11/15 9:43 am

Changes proposed by: nisbett

Requested **Spring 2016** ~~Fall 2014~~

Effective Change

Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 6659

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 4:05 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/31/15 8:23 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 09/08/15 9:58 am
 scraper: Approved
 for Engineering
 DSCC Chair

Advanced Topics ~~in~~ ~~Design~~ ~~and~~ ~~And~~ Manufacturing

Abbreviated Adv Top/Desn&Manufacture
 Course Title

Catalog

Description

Various topics in the area of design and manufacturing will be covered in this course:
 development of flexible manufacturing systems, CAD/CAM integration, rapid
 prototyping, etc.

Prerequisites

Mech Eng **5655 or Mech Eng 5708 or equivalent.** ~~5655.~~

Field Trip

Statement

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

Total: 3

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

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

Justification for
change:

Reflects the current course content

Semesters

previously
 offered as an
 experimental

course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2035

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/28/15 2:36 pm

Viewing: **MECH ENG 6663 : Advanced Digital Design and Manufacturing**

File: 712.1

Last edit: 08/28/15 3:41 pm

Changes proposed by: nisbett

Requested **Spring 2016** ~~Fall 2014~~

Effective Change

Date

Department Mechanical & Aerospace Engineering

Discipline Mechanical Engineering (MECH ENG)

Course Number 6663

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/28/15 3:39 pm
drallmei:
Approved for
RMECHENG Chair
2. 08/28/15 3:41 pm
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 09/04/15 9:29 am
craper: Approved
for Engineering
DSCC Chair

Advanced Digital Design and Manufacturing

Abbreviated Adv Digital Design and Mfg
Course Title

Catalog

Description

This course covers freeform modeling, reverse engineering, numerical control path generation for material removal and addition, and virtual reality based digital design and manufacturing. Students learn theoretical and fundamental aspects of these topics from lectures and project exercises.

Prerequisites

Mech Eng 5708 or Mech Eng ~~5757 5763~~ or **Mech Eng 5763 or equivalent.** ~~similar~~
~~course.~~

Field Trip

Statement

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

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

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

Justification for change:

Integrated Product and Process Design is an acceptable background option.

Semesters previously

offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 712
[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 07/30/15 12:18 pm

Viewing: **MET ENG 3340 : Ferrous**

Microstructures

File: 4240

Last edit: 07/31/15 7:57 am

Changes proposed by: smiller

Requested	Spring 2016
Effective Change	
Date	
Department	Materials Science & Engineering
Discipline	Metallurgical Engineering (MET ENG)
Course Number	3340
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. Ishelton
11. Peoplesoft

Approval Path

1. 07/30/15 3:27 pm
huebner:
Approved for
RMATSENG Chair
2. 07/31/15 7:57 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 08/19/15 10:33

am

craper: Approved
for Engineering
DSCC Chair

Ferrous Microstructures

Abbreviated Ferrous Microstructures
Course Title

Catalog

Description

Course provides an in-depth explanation of microstructural development during solidification, thermo-mechanical processing, and heat treatment of steel. Topics included: optical microscopy, quantitative metallography, the Fe-C phase diagram, solidification and banding, homogenization, grain size control, formation of microstructures upon heating/cooling.

Prerequisites

Met Eng 2110 with grade of "C" or better.

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:

Need an introductory course for the senior level Met Eng 4320 "Steels and their Treatment" course, and also for students going on co-op in the ferrous industries.

Semesters

previously

offered as an

experimental

course

Offered as Met 300 special problems course SP2014, but not as 301/30001

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4240

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/05/15 7:27 am

Viewing: **MET ENG 4450 : Steelmaking**

File: 1290.1

Last edit: 08/12/15 1:01 pm

Changes proposed by: smiller

Programs
referencing this
course

[MT ENG-BS: Metallurgical Engineering BS](#)

Requested **Spring 2016** ~~Fall 2014~~

Effective Change

Date

Department Materials Science & Engineering

Discipline Metallurgical Engineering (MET ENG)

Course Number 4450

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/05/15 8:08 am
huebner:
Approved for
RMATSENG Chair
2. 08/05/15 8:10 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 08/19/15 10:34

am

craper: Approved

for Engineering

DSCC Chair

Steelmaking

Abbreviated Steelmaking
Course Title

Catalog

Description

Introduction to the fundamentals and unit processes used to turn impure iron and scrap into steel. Includes desulfurization, BOF and electric furnace operations, ladle metallurgy, casting, and stainless steel manufacture.

Prerequisites

Grade of C or better in Cer Eng 3230 or Met Eng 3330. ~~Cer Eng 3230.~~

Field Trip

Statement

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

Total: 3

Required for No
Majors

Elective for **Yes** ~~No~~
Majors

Justification for
change:

include Met thermodynamics as well

Semesters

previously

offered as an

experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

sraper (08/12/15 1:01 pm): changed to elective for majors per email from Scott
Miller

Key: 1290

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/05/15 7:28 am

Viewing: **MET ENG 5450 : Advanced Steelmaking**

File: 1455.1

Last edit: 08/12/15 1:02 pm

Changes proposed by: smiller

Requested **Spring 2016** ~~Fall 2014~~

Effective Change

Date

Department Materials Science & Engineering

Discipline Metallurgical Engineering (MET ENG)

Course Number 5450

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. Ishelton
11. Peoplesoft

Approval Path

1. 08/05/15 8:08 am
huebner:
Approved for
RMATSENG Chair
2. 08/05/15 8:10 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 08/19/15 10:34
am
craper: Approved
for Engineering
DSCC Chair

Advanced Steelmaking

Abbreviated Advanced Steelmaking
Course Title

Catalog

Description

This course is designed to provide students with an enhanced understanding of the chemistry and physics of ironmaking, steelmaking and casting, to apply these concepts to a wide range of problems in modern steelmaking and casting operations, and to perform advanced design and operational calculations associated with refining and continuous casting processes. ~~Introduction to the fundamentals and unit processes used to turn impure iron and scrap into steel. Includes desulfurization, BOF and electric furnace operations, ladle metallurgy, casting, and stainless steel manufacture.~~

Prerequisites

Grade of C or better in Cer Eng 3230 or Met Eng 3330. ~~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:

include Met thermodynamics as well

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

sraper (08/12/15 1:02 pm): Changed course description per email from Scott Miller.

Key: 1455

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 07/31/15 10:05 am

Viewing: **MET ENG 5620 : Materials Behavior**

File: 4073.4

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

Last edit: 08/19/15 10:35 am

Changes proposed by: smiller

Requested Fall **2016** ~~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. Ishelton
11. Peoplesoft

Approval Path

1. 08/03/15 9:54 am
huebner:
Approved for
RMATSENG Chair
2. 08/03/15 9:58 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 08/19/15 10:35
am
craper: Approved
for Engineering
DSCC Chair

History

1. Jun 30, 2014 by
smiller

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 ~~MET CIV-ENG 3120. 2210.~~

Field Trip

Statement

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

Total: 3

Required for Majors No

Elective for Majors ~~Yes~~ No

Justification for

change:

update prerequisites to assure that students are able to get the maximum benefit

from this senior level technical elective course.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

sraper (08/19/15 10:35 am): changed to "elective for majors" based on justification.

Key: 4073

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 06/10/15 9:03 am

Viewing: **NUC ENG 4345 : Applied Mathematics
in Nuclear Engineering**

File: 4228

Last edit: 09/11/15 9:03 am

Changes proposed by: gmueller

Requested Spring 2016

Effective Change

Date

Department Mining & Nuclear Engineering

Discipline Nuclear Engineering (NUC ENG)

Course Number 4345

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. Ishelton
11. Peoplesoft

Approval Path

1. 06/24/15 10:34 am
reflori: Approved for RMINNUCL Chair
2. 06/24/15 10:37 am
Kaylon Buckner (kleb6b):

Approved for CCC
Secretary

3. 06/29/15 9:53 am
sraper: Approved
for Engineering
DSCC Chair

4. 07/15/15 1:49 pm
Kaylon Buckner
(kleb6b):
Approved for
Pending CCC
Agenda post

5. 09/11/15 9:03 am
Kaylon Buckner
(kleb6b): Rollback
to Pending CCC
Agenda post for
CCC Meeting
Agenda

Applied Mathematics in Nuclear Engineering

Abbreviated Course Title Applied Math in NE

Catalog

Description

Application of ordinary and partial differential equations in the solution of nuclear engineering problems, particularly with the neutron kinetics equations, Bessel's equation and special functions, eigenvalue problems, Green's function, integral methods and transformations.

Prerequisites

Nuc Eng 4203.

Field Trip

Statement

None

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 elective nuclear engineering course has been taught two times before as an experimental course in FS2008 (25 Students) and FS2013 (20 Students). Thus, we would like to request a permanent course number.

Semesters
previously
offered as an
experimental
course
FS2008 (25 Students) and FS2013 (20 Students).

Co-Listed
Courses:

Course Reviewer
Comments

kleb6b (09/11/15 9:03 am): Rollback: Tabled

Key: 4228
[Preview Bridge](#)

Course Inventory Change Request

A deleted record cannot be edited

Course Deactivation Proposal

Date Submitted: 08/26/15 11:37 am

Viewing: **PET ENG 1110 : Introduction to Petroleum Engineering**

File: 2005.1

Last edit: 08/26/15 11:37 am

Changes proposed by: nygaardr

Programs
referencing this
course

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

Requested **Spring 2016** ~~Fall 2014~~
Effective Change
Date

Department Geosciences and Geological and Petroleum
Engineering

Discipline Petroleum Engineering (PET ENG)

Course Number 1110

Title

In Workflow

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

Approval Path

1. 08/26/15 12:52 pm
ikuenobe:
Approved for
RGEOENG Chair
2. 08/26/15 1:07 pm
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary
3. 08/30/15 10:40
am
craper: Approved
for Engineering
DSCC Chair

Introduction to Petroleum Engineering

Abbreviated	Intro to Petroleum
Course Title	Engineering

Catalog

Description

Introduction to and overview of petroleum engineering topics and fundamental areas including drilling, production, reservoir engineering, and mechanical earth modeling.

Prerequisites

Entrance requirements.

Field Trip

Statement

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

Total: 1

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

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

Justification for change:

This 1 credit course has been included in the new required petrophysics class so this class will not be taught again.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2005
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/26/15 11:41 am

Viewing: **PET ENG 4211 : Advanced Drilling Technology**

File: 990.1

Last edit: 08/27/15 9:37 am

Changes proposed by: nygaardr

Requested	Spring 2016 Fall 2014
Effective Change	
Date	
Department	Geosciences and Geological and Petroleum Engineering
Discipline	Petroleum Engineering (PET ENG)
Course Number	4211
Title	

In Workflow

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

Approval Path

1. 08/26/15 12:53 pm
ikuenobe:
Approved for RGEOENG Chair
2. 08/26/15 1:07 pm
Kaylon Buckner (kleb6b):
Approved for CCC

Secretary
3. 08/30/15 10:40
am
craper: Approved
for Engineering
DSCC Chair

Advanced Drilling Technology

Abbreviated Adv Drilling Technology
Course Title

Catalog

Description

In-depth study of directional well planning and drilling. The course covers the bottom hole assemblies and operational techniques used in drill directional drilling as well as the limiting factors and hole problems related to horizontal wells.

Prerequisites

Pet Eng **4210**. ~~3210~~.

Field Trip

Statement

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

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

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

Justification for

change:

Wrong course number for prerequisite course. It should be Pet Eng 4210 Drilling Engineering and Well design.

Semesters

previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer

Comments

sraper (08/27/15 9:37 am): changed to elective for majors based on email from
Nygaard

Key: 990

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 09/04/15 10:18 am

Viewing: **PHILOS 3204 : Ancient Philosophy**

File: 4246

Last edit: 09/04/15 10:18 am

Changes proposed by: denises

Requested	Spring 2016
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	Philosophy (PHILOS)
Course Number	3204
Title	

In Workflow

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

Approval Path

1. 09/04/15 1:27 pm
lance: Approved for RPHILOS Chair
2. 09/04/15 2:34 pm
Kaylon Buckner (kleb6b):
Approved for CCC

Secretary

3. 09/04/15 2:37 pm

ivliyeva:

Approved for Arts
& Humanities

DSCC Chair

Ancient Philosophy

Abbreviated Ancient Philosophy
Course Title

Catalog

Description

A study of selected philosophical works from the pre-Socratics to William of Occam.

Prerequisites

An introductory (below 2000) level Philosophy course.

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:

To create the course in CourseLeaf

Semesters

previously
offered as an
experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4246

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 09/08/15 11:24 am

Viewing: **POL SCI 2760 : Contemporary Political Thought**

File: 179.1

Last edit: 09/08/15 11:34 am

Changes proposed by: rlc

Programs

referencing this
course

[HIST-BA: History BA](#)

[PRE LAW-MI: Pre Law Minor](#)

[PSYCH-BA: Psychology BA](#)

[PSYCH-BS: Psychology BS](#)

Other Courses

referencing this
course

In The Catalog Description:

[HISTORY 2760 : Contemporary Political Thought](#)

Requested

Spring 2016 ~~Fall 2014~~

Effective Change

Date

Department

History and Political Science

Discipline

Political Science (POL SCI)

Course Number

2760

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. Ishelton

11. Peoplesoft

Approval Path

1. 09/08/15 11:33
am

sfogg: Approved
for RHISTORY
Chair

2. 09/08/15 11:34
am

Kaylon Buckner

(kleb6b):

Approved for CCC

Secretary

3. 09/08/15 12:04

pm

dewittp:

Approved for Arts

& Humanities

DSCC Chair

Contemporary Political Thought

Abbreviated Contemporary Pol Thought
Course Title

Catalog

Description

This course will explore the impact of ideas on American politics and history, including the relationship between technological change and public policy; this will be pursued through the study of American political history, social institutions, and intellectual history.

Prerequisites

History 1300 or **1310** ~~1301~~ or Pol Sci 1200.

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:

Listed incorrect prerequisites.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

HISTORY 2760 - Contemporary Political Thought

Course Reviewer

Comments

Key: 179

[Preview Bridge](#)

Course Inventory Change Request

New Course Proposal

Date Submitted: 09/04/15 1:22 pm

Viewing: **TCH COM 3570 : Writing in the Sciences**

File: 4247

Last edit: 09/08/15 8:25 am

Changes proposed by: kswenson

Requested Spring 2016

Effective Change

Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 3570

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. Ishelton
11. Peoplesoft

Approval Path

1. 09/04/15 7:37 pm
kswenson:
Approved for
REGLISH Chair
2. 09/08/15 8:25 am
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 09/08/15 11:18

am

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

Writing in the Sciences

Abbreviated Writing in the Sciences
Course Title

Catalog

Description

This course is designed to teach students how to write effectively in the sciences. Writing assignments include short reports, proposals, and a major project such as a research or analytical report or a procedures/instructions manual. Emphasis is placed on clarity, conciseness, organization, format, style, and tone.

Prerequisites

English 1120 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 offered twice as part of the course-sharing initiative with UMSL

and has enrolled well. It will increase the professional writing offerings to S&T students without putting additional burden on our TC faculty or budget.

Semesters
previously
offered as an
experimental
course
FS15, SP15

Co-Listed
Courses:

Course Reviewer
Comments

Key: 4247
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/26/15 10:13 pm

Viewing: **TCH COM 4085 : Internship**

File: 2442.1

Last edit: 08/27/15 8:08 am

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

Requested **Spring 2016** ~~Fall 2014~~

Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 4085

Title

In Workflow

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

Approval Path

1. 08/26/15 10:15 pm
kswenson:
Approved for
RENGLISH Chair
2. 08/27/15 8:08 am
Kaylon Buckner
(kleb6b):

Approved for CCC
Secretary
3. 08/27/15 10:57
am
ivliyeva:
Approved for Arts
& Humanities
DSCC Chair

Internship

Abbreviated Internship
Course Title

Catalog

Description

Internship will involve students applying 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.

Prerequisites

Must ~~Senior status; must~~ have completed 24 hours in the major core curriculum.

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:

"Senior status" is unnecessarily restrictive.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 2442

[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/26/15 10:10 pm

Viewing: **TCH COM 4410 : Theory and Practice
of Technical Communication**

File: 1807.3

Last approved: 07/07/14 3:48 am

Last edit: 08/27/15 8:17 am

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

Requested **Spring 2016** ~~Fall 2014~~
Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 4410

Title

In Workflow

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

Approval Path

1. 08/26/15 10:11
pm
kswenson:
Approved for
RENGLISH Chair
2. 08/27/15 8:17 am
Kaylon Buckner
(kleb6b):

Approved for CCC

Secretary

3. 08/27/15 10:57

am

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

History

1. Jul 7, 2014 by

kswenson

(1807.1)

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;~~ TCH COM 1600 or ENGLISH 1600; TCH COM 2540 or 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:

"Senior Status" is unnecessarily restrictive.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1807
[Preview Bridge](#)

Course Inventory Change Request

Date Submitted: 08/29/15 4:06 pm

Viewing: **TCH COM 4450 : International Dimensions of Technical Communication**

File: 1937.3

Last approved: 08/28/15 3:40 am

Last edit: 08/31/15 8:23 am

Changes proposed by: kswenson

Programs
referencing this
course

[TCH COM-BS: Technical Communication BS](#)

Other Courses
referencing this
course

In The Catalog Description:

[TCH COM 6450 : Advanced International Technical Communication](#)

Requested Spring **2016** ~~2015~~
Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 4450

Title

In Workflow

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

Approval Path

1. 08/29/15 4:14 pm
kswenson:
Approved for
RENGLISH Chair
2. 08/31/15 8:23 am
Kaylon Buckner
(kleb6b):
Approved for CCC

Secretary

3. 08/31/15 11:47

am

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

History

1. Jun 30, 2014 by

kswenson

(1937.1)

2. Aug 28, 2015 by

kleb6b (1937.2)

International Dimensions of Technical Communication

Abbreviated	Intl Dimensions of Tech
Course Title	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 6450.

Prerequisites

One semester of college composition or technical **writing and undergraduate 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:

Graduate students should not take this course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

Key: 1937

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 07/17/15 7:22 am

Viewing: **ELEC ENG 5001.001 : High Frequency
Sensors and Sensing Systems**

File: 4238

Last edit: 08/28/15 2:19 pm

Changes proposed by: martins

Requested Spring 2016

Effective Change

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 5001

Topic ID 001

Experimental
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

Approval Path

1. 08/28/15 2:15 pm
Daryl Beetner
(daryl): Approved
for RELECENG
Chair
2. 08/28/15 2:19 pm
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary
3. 09/04/15 9:27 am
srafer: Approved
for Engineering
DSCC Chair

High Frequency Sensors and Sensing Systems

Experimental High Frequency Sensors

Abbreviated

Course Title

Instructors Dr. Kristen Donnell

Experimental

Catalog

Description

Topics include basics of sensing and sensor systems, wireless sensor networks, embedded sensing, modulated scatterer technique, RFID-based sensing frequency selective surface-based and coaxial-based sensing, applications of embedded sensing. Other topics may include magnetic sensors, capacitive and inductive sensors, and optical sensors.

Prerequisites

Elec Eng 3600 or equivalent undergraduate electromagnetics course.

Field Trip

Statement

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

Justification for

new course:

The course will offer material not covered in other electromagnetics courses, and will also cover material that will support or is related to a number of research programs in the ECE department.

Semester(s)

previously taught

none

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4238

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 08/11/15 8:14 am

Viewing: **EXP ENG 6001.001 : Special Explosive Applications**

File: 4242

Last edit: 08/11/15 8:14 am

Changes proposed by: kleb6b

Requested Spring 2016

Effective Change

Date

Department Mining & Nuclear Engineering

Discipline Explosives Engineering (EXP ENG)

Course Number 6001

Topic ID 001

Experimental
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

Approval Path

1. 08/11/15 8:46 am
reflori: Approved for RMINNUCL Chair
2. 08/11/15 8:47 am
Kaylon Buckner (kleb6b):
Approved for CCC Secretary
3. 08/19/15 10:33 am
srafer: Approved for Engineering DSCC Chair

Special Explosive Applications

Experimental Special Explosive Apps

Abbreviated

Course Title

Instructors Dr. Vilem Petr

Experimental

Catalog

Description

Advanced theory and special application of explosives other than for rock excavation. Students will be introduced to different industrial, military and government special uses such as avalanche control, explosive welding, forming, synthesis and hardening, aerospace, forest service, agriculture and oil industry applications.

Prerequisites

Exp Eng 5612 or equivalent, graduate standing.

Field Trip

Statement

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

Justification for

new course:

To expand the range and depth of explosives courses available to explosives engineering graduate students and fill in a gap in current offerings. The course will be given by explosives specialist, Dr. Vilem Petr, Associate Research Professor at Colorado School of Mines and Technical Director of the Advanced Explosives Processing Research Group.

Semester(s)

previously taught

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4242

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/02/15 12:25 pm

Viewing: **PSYCH 3001.001 : Drugs and Behavior**

File: 4245

Last edit: 09/08/15 12:07 pm

Changes proposed by: hensleea

Requested Fall 2016

Effective Change

Date

Department Psychological Science

Discipline Psychology (PSYCH)

Course Number 3001

Topic ID 001

Experimental

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. **Registrar**

Approval Path

1. 09/02/15 2:24 pm

murray: Approved
for RPSYCHOL
Chair

2. 09/02/15 2:39 pm

Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary

3. 09/08/15 11:53

am
barryf: Approved
for Social
Sciences DSCC
Chair

Drugs and Behavior

Experimental Drugs and Behavior

Abbreviated

Course Title

Instructors Amber M. Henslee

Experimental

Catalog

Description

Introduction to the behavioral effects of drugs with the goal of understanding the following: 1) History of therapeutic & recreational drug use, and drug abuse 2) Consequences of drug abuse & addiction 3) Effects the various drugs have on the central nervous system & behavior 4) Research methods used to study drug use 5) Effective treatment of drug abuse

Prerequisites

PSYCH 1101

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

To include as an upper-level social science elective for engineering and non-psychology majors and to expand the clinical curriculum electives for psychology majors.

Semester(s)

previously taught

None at S&T. Once at a previous institution.

Co-Listed

Courses:

Course Reviewer Comments

Key: 4245

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 09/09/15 9:29 am

Viewing: **RUSSIAN 5001.001 : Advanced
Russian Phonetics and Intonation**

File: 4248

Last edit: 09/10/15 8:20 am

Changes proposed by: ivliyeva

Requested	Spring 2016
Effective Change	
Date	
Department	Arts, Languages, & Philosophy
Discipline	Russian (RUSSIAN)
Course Number	5001
Topic ID	001
Experimental	
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

Approval Path

1. 09/09/15 10:19
am
lance: Approved
for RPHILOSO
Chair
2. 09/10/15 8:20 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary
3. 09/10/15 10:00
am
dewittp:
Approved for Arts

& Humanities
DSCC Chair

Advanced Russian Phonetics and Intonation

Experimental Advanced Russ Phonetics
Abbreviated
Course Title
Instructors Irina Ivliyeva

Experimental Catalog Description

This course focuses on pronunciation improvement, development of basic transcription skills, comprehension of Russian speech at fast tempo, interactions of intonation and syntax at the advanced level. The final research project is required.

Prerequisites

Russian 1102 or higher.

Field Trip Statement

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

Justification for new course:

This course will be offered concurrently with the Russ Phonetics 4320 in the Spring semester. This class is for the students who completed their undergraduate work at S&T, were accepted to graduate school here and still need to take one class in order to complete their Russian Minor requirements. The 5001 students will complete the final research project for this class.

Semester(s) previously taught None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4248

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 08/19/15 10:57 am

Viewing: **STAT 6001.001 : Statistical Methods
for Bioinformatics**

File: 4243

Last edit: 09/11/15 8:31 am

Changes proposed by: imorgan

Requested	Spring 2016
Effective Change	
Date	
Department	Mathematics & Statistics
Discipline	Statistics (STAT)
Course Number	6001
Topic ID	001
Experimental	
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. Registrar

Approval Path

1. 08/20/15 10:51
am
sclark: Approved
for RMATHEMA
Chair
2. 08/20/15 10:54
am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary
3. 09/11/15 8:31 am
imorgan:
Approved for

Statistical Methods for Bioinformatics

Experimental Stat for Bioinformatics

Abbreviated

Course Title

Instructors Dr. Gayla Olbricht

Experimental

Catalog

Description

Statistical methods for analysis of high-throughput experiments in molecular biology, such as genome-wide association, transcriptomic, and epigenomic studies. Relevant biological concepts and technological considerations are introduced. Current statistical methods used in these applications and their implementation in R/Bioconductor are covered in detail.

Prerequisites

Math 2222 and one of Stat 3111, Stat 3113, Stat 3115, Stat 3117, or Stat 5643 and one of Stat 5346, Stat 5353, Stat 5425, or Stat 6344.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Bioinformatics is a thriving field that focuses on developing methods to draw meaningful conclusions from biological data that are generated from high-throughput experiments. These experiments produce massive amounts of data that are valuable in studying many molecular-level processes, such as gene expression and DNA methylation, on a genome-wide scale. Robust statistical models and efficient computational methods are an essential part of gleaning useful

knowledge from these data. No other course is currently being offered on campus that addresses the statistical modeling component of bioinformatics in detail. This course would fill that gap and could be taken by graduate students in the Mathematics and Statistics Department, as well as interested students in other departments (such as Computer Science or Biology).

Semester(s)

previously taught

None

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4243

[Preview Bridge](#)

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 08/26/15 10:03 pm

Viewing: **TCH COM 5001.001 : Content Strategy**

File: 4244

Last edit: 09/11/15 10:01 am

Changes proposed by: kswenson

Requested Spring 2016

Effective Change
Date

Department English and Technical Communication

Discipline Technical Communication (TCH COM)

Course Number 5001

Topic ID 001

Experimental
Title

In Workflow

1. **RENLISH 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**

Approval Path

1. 08/26/15 10:12 pm
kswenson:
Approved for
RENLISH Chair
2. 08/27/15 8:18 am
Kaylon Buckner
(kleb6b):
Approved for CCC
Secretary
3. 08/27/15 10:57 am
ivliyeva:
Approved for Arts

& Humanities

DSCC Chair

Content Strategy

Experimental Content Strategy
Abbreviated
Course Title

Instructors Ed Malone

Experimental Catalog Description

Examines the practice of technical communication in content management system (CMS) environments and covers such subjects as single sourcing, topic-based writing, and adaptive content. Students will learn how to perform a content audit, engage in content modeling, create content templates, and use Framemaker or a similar tool to structure content.

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				

Justification for new course:

Content Strategy is a growing new field in Tech Com that will complement our current offerings in Web-Based Communication and Technical Editing. Tech Com students will benefit in the workplace from familiarity with adaptive content and the development and implications of personalization through technology in technical communication.

Semester(s)

previously taught

n/a

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4244

[Preview Bridge](#)