



Campus Curricula Committee Meeting Agenda

March 5, 2014

10:00 am, Room 106B Parker Hall

Review of submitted Degree Change forms:

File #149.3	Ceramic Engineering: Ceramic Engineering BS
File #230	Electrical and Computer Engineering: Minor in Automation Engineering
File #222.1	Explosives Engineering: Explosives Engineering Minor
File #56.1	Explosives Engineering: Explosives Engineering MS
File #90.2	Metallurgical Engineering: Metallurgical Engineering BS
File #95.1	Mining and Nuclear Engineering: Mining Engineering BS
File #98.1	Mining and Nuclear Engineering: Mining Engineering Minor
File #169.1	Mining and Nuclear Engineering: Mining Engineering MS
File #229	Mining and Nuclear Engineering: Explosives Engineering Emphasis

Review of submitted Course Change forms:

File #2317.1	Business 4150: Customer Focus and Satisfaction
File #2145.1	Business 4675: International Business
File #4043	Business 5085: Internship
File #2318.1	Business 5150: Advanced Customer Focus and Satisfaction
File #2146.1	Business 5675: Advanced International Business
File #4038	Computer Science 1972: Introduction to MATLAB Programming
File #4039	Computer Science 1982: MATLAB Programming Laboratory
File #441.1	Computer Science 228: Introduction To Numerical Methods
File #446.1	Computer Science 253: Algorithms
File #2374.1	Computer Science 461: Privacy Preserving Data Integration and Analysis
File #4032	Electrical Engineering 4380: Practicum in Automation Engineering
File #4042	Engineering Management 252: Financial Management
File #500.1	Finance 5160: Corporate Finance II
File #2190.1	Finance 5260: Investments I
File #4035	French 4320: French and Francophone Cinema
File #777.1	Geological Engineering 343: Subsurface Exploration
File #4011	Geological Engineering 436: Advanced Geophysical Methods
File #907.1	History 3360: Recent United States History
File #1587.1	History 3450: American Intellectual History II



File #917.1	Information Science & Technology 1551: Implementing Information Systems: User Perspective
File #935.1	Information Science & Technology 4261: Information Systems Project Management
File #2391.1	Information Science & Technology 4335: Fundamentals of Mobile Technology for Business
File #925.1	Information Science & Technology 4641: Electronic and Mobile Commerce
File #4044	Information Science & Technology 4642: E-Commerce Architecture
File #920.1	Information Science & Technology 4654: Web and Digital Media Development
File #2254.1	Information Science & Technology 5261.: Advanced Information Systems Project Management
File #1871.1	Information Science & Technology 5335: Mobile Technology for Business
File #4040	Information Science & Technology 5420: Introduction to Big Data Analytics
File #2031.1	Information Science & Technology 5680: Advanced Web and New Media Studies
File #946.1	Math 12: Business Calculus
File #947.1	Math 14: Calculus For Engineers I
File #1032.1	Mechanical Engineering 312: Introduction to Finite Element Analysis
File #1102.1	Metallurgical Engineering 321: Metal Deformation Processes
File #1161.1	Mining Engineering 221: Mining Exploration
File #2270.1	Mining Engineering 235: Underground Mine Design
File #2247.1	Mining Engineering 392: Mine Design Project I
File #1182.1	Mining Engineering 393: Mine Design Project II
File #4045	Marketing 5580: Advanced Marketing Strategy
File #1899.1	Physics 306: Physics, Energy, and the Environment
File #1342.1	Physics 324: Fourier Optics
File #1343.1	Physics 326: Fiber And Integrated Optics
File #1346.1	Physics 409: Classical Mechanics I
File #1353.1	Physics 411: Electrodynamics I
File #2245.1	Physics 451: Advanced Computational Physics
File #2345.1	Physics 456: Advanced Chaos, Fractals, and Nonlinear Dynamics
File #2246.1	Physics 457: Advanced Subatomic Physics
File #1374.1	Political Science 4085: Political Science Internship
File #1452.1	Statistics 446: Advanced Probability Theory

Review of submitted Experimental Course forms:

File #4034	Computer Science 1001: Introduction to MATLAB Programming
File #4037	Computer Science 1001: MATLAB Programming Laboratory
File #4036	Computer Science 5001: Experiential Entrepreneurship for Computer Scientists
File #4030	Electrical Engineering 5001: State Variable Control Design and Applications
File #4033	French 301: Paris



MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

Formerly University of Missouri-Rolla

Experimental Course Policy Review

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Program Change Request

Date Submitted: 10/11/13 9:03 am

Viewing: **CR ENG-BS : Ceramic Engineering BS**

File: 149.3

Last approved: 10/10/13 1:49 pm

Last edit: 10/11/13 9:03 am

Changes proposed by: lahne

Catalog Pages	Ceramic Engineering	In Workflow <ol style="list-style-type: none"> 1. RMATSENG Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Using this Program		
Start Term	Fall 2014	
Program Code	CR ENG-BS	
Department	Materials Science & Engineering	
Title	Ceramic Engineering BS	Approval Path <ol style="list-style-type: none"> 1. 10/11/13 3:02 pm huebner: Approved for RMATSENG Chair 2. 01/09/14 2:49 pm lahne: Approved for CCC Secretary 3. 01/27/14 8:43 am srafer: Approved for Engineering DSCC Chair 4. 02/07/14 10:01 am kleb6b: Approved for Pending CCC—Agenda post

Program Requirements and Description

Bachelor of Science Ceramic Engineering

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

For the Bachelor of Science degree in Ceramic Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. A student must maintain at least two grade points per credit hour for all courses taken in the student's major department, and an average of at least two grade points per credit hour must be maintained in Ceramic Engineering.

The Ceramic Engineering curriculum contains a required number of hours in humanities and social sciences as specified by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. Each student's program of study must contain a minimum of 18 credit hours of course work from the humanities and the social sciences areas and should be chosen according to the following rules:

1. All students are required to take one American history course and one economics course. The history course is to be selected from [HISTORY 112](#), [HISTORY 175](#), [HISTORY 176](#), or [POL SCI 90](#). The economics course may be either [ECON 121](#) or [ECON 122](#). Some disciplines require one humanities course to be selected from the approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater.
2. Of the remaining hours, six credit hours must be taken in humanities or social sciences **from the approved list of Humanities at the 100-level or above and Social Science (HSS) courses posted on the Undergraduate Studies website (<http://ugs.mst.edu/>). must be selected from the approved lists. Each of these courses must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 70 to 80 can be selected as one of these courses. Students (Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000-level, 300-level.)**
3. Skill courses are not allowed to meet humanities and social sciences requirements except in foreign languages or on approved HSS list.
4. Special topics, special problems courses and honors seminars are allowed only by petition to and approval by the student's department chairman.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 10	1	MET ENG 125	3
CHEM 1	4	MATH 15	4
CHEM 2	1	PHYSICS 23	4
MATH 14	4	H/SS Elective ¹	3
ENGLISH 20	3	IDE 20	3
H/SS Elective ¹	3		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
CER ENG 102	3	CER ENG 103	3
CER ENG 104	2	CER ENG 122	2
CER ENG 111	2	CER ENG 259	3
MATH 22	4	MATH 204 (or Statistics Elective) ³	3

History

1. Oct 10, 2013 by lahne

PHYSICS 24	4	H/SS Elective ¹	3
		CIV ENG 50	3
	15		17
Junior Year			
First Semester	Credits	Second Semester	Credits
CER ENG 231	2	CER ENG 242	2
CER ENG 251	3	CER ENG 291	3
CIV ENG 110	3	PHYSICS 107	3
CER ENG 203	3	H/SS Elective ¹	3
H/SS Elective ¹	3	Technical Elective ²	2
		Advanced Chemistry Elective ⁵	3
	14		16
Senior Year			
First Semester	Credits	Second Semester	Credits
CER ENG 261	3	CER ENG 262	3
CER ENG 284	3	CER ENG 306	4
CER ENG 331	3	H/SS Elective ¹	3
CER ENG 338	3	Statistics Elective ³	3
ENG MGT 137	2	Technical Electives ²	3
Technical Elective ²	3		
	17		16
Total Credits: 128			

Note 1: ~~Students may replace CHEM 1, CHEM 2, and CHEM 3 with CHEM 5, but will need to also take an additional technical elective (with advisor's approval) to reach the 128 hour requirement.~~ **Note 2:**

Students may substitute [MATH 8](#) and [MATH 21](#) for [MATH 14](#) and [MATH 15](#), respectively.

Note 2: ~~Note 3:~~ Students may substitute [CHEM 3](#) for [MET ENG 125](#).

¹	Eighteen hours of H/SS electives to be taken.
²	Technical electives must be selected from upper level engineering and science courses with the advisor's approval.
³	All Ceramic Engineering students must either take MATH 204 and one statistics course (3000-level or higher) or an introductory statistics course (3000-level) plus an advanced statistics elective (ECON 211 , ENG MGT 356 , ENG MGT 366 , ENG MGT 381 , ENG MGT 382 , ENG MGT 385 , STAT 346 , and STAT 356).
⁴	All Ceramic Engineering students must take the Fundamentals of Engineering Examination (FE) prior to graduation. A passing grade on this examination is not required to earn a B.S. degree; however, it is the first step toward becoming a registered professional engineer. This requirement is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.
⁵	All Ceramic Engineering students must select an advanced chemistry elective with the advisor's approval. The courses that can be considered are CHEM 221 , CHEM 225 , CHEM 237 , CHEM 241 , CHEM 331 , or CHEM 343 .

Specific Degree Requirements

1. Total number of hours required for a degree in Ceramic Engineering is 128.
2. The assumption is made that a student admitted in the department has completed 34 hours credit towards graduation. The academic program of students transferring from colleges outside Missouri S&T will be decided on a case-by-case basis.
3. The department requires a total of 18 credit hours of humanities and social science.

Justification for course renumbering request

Supporting Documents

Course Reviewer Comments

Key: 149

Program Change Request

New Program Proposal

Date Submitted: 01/13/14 10:35 am

Viewing: **PROPOSED : Minor in Automation Engineering**

File: 230

Last edit: 01/27/14 11:19 am

Changes proposed by: kte

Start Term	Fall 2014
Program Code	PROPOSED
Department	Electrical and Computer Engineering
Title	Minor in Automation Engineering

In Workflow

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

Program Requirements and Description

A minor in Automation Engineering will require the following:

- Pass Elec Eng 3340 – Controllers for Factory Automation with a C or better
- Pass one of the following courses with a C or better:
 - Elec Eng 3320 – Control Systems
 - Mech Eng 4479 – Automatic Control of Mechanical Systems
 - Chem Eng 4600 – Chem Engr Process Dynamics and Control
- Pass 9 additional hours of coursework from the following list. A C or better is required for all 9 hours.

Chem Eng 4613 – Intermediate Process Dynamics and Control

Chem Eng 5605/Elec Eng 5350 – Plantwide Process Control

Chem Eng 4922/Mech Eng 5644 – Interdisciplinary Problems in Manufacturing Automation

Elec Eng 4380 – Practicum in Automation Engineering (no more than one can be applied to the Automation Engineering Minor)

Elec Eng 5340 – Advanced PLC

Elec Eng 5870/Mech Eng 5478 – Mechatronics

Mech Eng 5449 – Robotic Manipulators and Mechanisms

Mech Eng 5655 – Manufacturing Equipment Automation

Approval Path

1. 01/13/14 10:37 am
kte: Approved for RELECENG Chair
2. 01/27/14 11:19 am
kleb6b: Approved for CCC Secretary
3. 01/31/14 11:45 am
srapser: Approved for Engineering DSCC Chair
4. 02/07/14 10:03 am
kleb6b: Approved for Pending CCC Agenda post

Justification for request

The only new proposed course is EI Eng 4380. All other courses in the program exist already. No additional faculty resources are required. The second course (Ch Eng 4600, EI Eng 3320, or Mc Eng 4479) is already required by the respective programs. Not counting free electives, EI Eng students could receive the minor with as few as 3 additional credit-hours, Mc Eng students could receive the minor with as few as 6 additional credit-hours, and Ch Eng Eng students could receive the minor with as few as 12 additional hours to receive the minor. Free electives could be used to further reduce the number of additional credit-hours.

Supporting Documents

Course Reviewer Comments

Key: 230

Program Change Request

Date Submitted: 12/20/13 6:44 am

Viewing: **EXP EN-MIG : Explosives Engineering Minor**

File: 222.1

Last edit: 01/09/14 3:37 pm

Changes proposed by: pworsey

Start Term	Fall 2014	In Workflow <ol style="list-style-type: none">1. RMINNUCL Chair2. CCC Secretary3. Engineering DSCC Chair4. Pending CCC Agenda post5. CCC Meeting Agenda6. Campus Curricula Committee Chair7. FS Meeting Agenda8. Faculty Senate Chair9. Registrar10. Peoplesoft
Program Code	EXP EN-MIG	
Department	Mining & Nuclear Engineering Mathematics & Statistics	
Title	Explosives Engineering Minor	

Program Requirements and Description

Graduate Minor Requirements

A student who receives a Master of Science, Master of Engineering, or Doctor of Philosophy degree from S&T may receive a Graduate Minor in Explosives Engineering by completing 15 credit hours of explosives engineering courses. Non-engineering students may qualify for the Graduate Minor in Explosives Engineering with the approval of the program coordinator based on an individually designed program of study.

The following courses are required for the Graduate Minor in Explosives Engineering:

EXP ENG 5612 Principles of Explosives Engineering

EXP ENG 5622 Blasting Design and Technology

Three other graduate level explosives courses as approved by the program coordinator.

Listed below are the requirements as approved by Academic Council on 9/22/2005

A student who receives a Master of Science, Master of Engineering, or Doctor of Philosophy degree from UMR may receive the Graduate Minor in Explosives Engineering by completing 15 credit hours from the courses listed below. Non-engineering students may also qualify for the Graduate Minor in Explosives Engineering, with the approval of the Department and based on an individually designed program of study.

The following courses are required for the Graduate Minor in Explosives Engineering:

- Min Eng 307 - Principles of Explosives Engineering
- Min Eng 309 - Commercial Pyrotechnics Operations
- Min Eng 350 - Drilling and Blasting
- Min Eng 383 - Tunneling and Underground Construction
- One other related course, as approved by program coordinator

Min Eng 490 Research, Min Eng 406 Scientific Instrumentation for Explosives Testing & Blasting, and Min Eng 301 Demolition of Building and Structures (permanent number coming after two offerings), may be substituted for Min Eng 309 or Min Eng 383.

The list of explosives courses will be expanded in the future in order to give students more flexibility in selecting courses.

The Graduate Minor in Explosives Engineering is not accredited by the Accreditation Board of Engineering and Technology (ABET).

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Approval Path

1. 12/20/13 10:37 am
frimpong: Approved for RMINNUCL Chair
2. 01/09/14 3:51 pm
lahne: Approved for CCC Secretary
3. 01/27/14 8:44 am
sraپر: Approved for Engineering DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Justification for request To update to new course numbering system and a few minor changes due to added courses giving more options.

Supporting Documents

Course Reviewer Comments

Key: 222

Program Change Request

Date Submitted: 12/20/13 10:12 am

Viewing: **EXP EN-MS : Explosives Engineering MS**

File: 56.1

Last edit: 12/20/13 10:12 am

Changes proposed by: pworsey

Catalog Pages	Explosives Engineering	<div>5. CCC Meeting Agenda</div> <div>6. Campus Curricula Committee Chair</div> <div>7. FS Meeting Agenda</div> <div>8. Faculty Senate Chair</div> <div>9. Registrar</div> <div>10. Peoplesoft</div>
Using this Program		
Start Term	Fall 2014	
Program Code	EXP EN-MS	
Department	Mining & Nuclear Engineering	<div>Approval Path</div> <div>1. 12/20/13 10:37 am frimpong: Approved for RMINNUCL Chair</div> <div>2. 01/09/14 9:26 am lahne: Approved for CCC Secretary</div> <div>3. 01/27/14 8:46 am sraep: Approved for Engineering DSCC Chair</div> <div>4. 02/07/14 10:01 am kleb6b: Approved for Pending CCC Agenda post</div>
Title	Explosives Engineering MS	
Program Requirements and Description		
Degree Requirements		
M.S. with Thesis: The MS degree with thesis requires the completion of 24 hours of graduate course work and six hours of research (EXP ENG 490) and the successful completion and defense of a research thesis. Four of the following core courses are required of all MS students in Explosives Engineering:		

EXP ENG 307	Principles Of Explosives Engineering
or MIN ENG 307	Principles Of Explosives Engineering
EXP ENG 350	Blasting Design And Technology
or MIN ENG 350	Blasting Design And Technology
EXP ENG 351	Demolition of Buildings and Structures
MIN ENG 383	Tunneling & Underground Construction Techniques
EXP ENG 402	Environmental Controls For Blasting
EXP ENG 406	Scientific Instrumentation For Explosives Testing & Blasting

Students select 12 hours of ExpE and other appropriate elective courses. M.S. in Explosives Engineering candidates are advised to group out-of-department courses into a module that fits their special interest.

M.S. without Thesis (by coursework): The M.S. degree without thesis requires the completion of 30 hours of graduate coursework with the same stipulations as above. The six hours of research is replaced by ~~course an explosives related cooperative~~ work **which may include an explosives related cooperative work** experience ([EXP ENG 497](#)) or industry project ([EXP ENG 498](#)) with an established company or government agency commonly using explosives and an additional explosives course.

~~In addition the candidate is required to present a formal presentation (oral or poster) with abstract to an established scientific or industry society and present a formal oral and/or electronically recorded presentation with abstract to the Mining/Nuclear/Explosives engineering seminar.~~

Justification for request	Ready to update to new course numbering system and to streamline due to added courses giving more options.
Supporting Documents	
Course Reviewer Comments	

Key: 56

Program Change Request

Date Submitted: 10/11/13 9:04 am

Viewing: **MT ENG-BS : Metallurgical Engineering BS**

File: 90.2

Last approved: 10/08/13 12:33 pm

Last edit: 01/09/14 2:52 pm

Changes proposed by: lahne

In Workflow

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

Approval Path

1. 10/11/13 3:02 pm
huebner: Approved for RMATSENG Chair
2. 01/09/14 2:53 pm
lahne: Approved for CCC Secretary
3. 01/31/14 11:45 am
srafer: Approved for Engineering DSCC Chair
4. 02/07/14 10:03 am
kleb6b: Approved for Pending CCC—Agenda post

History

1. Oct 8, 2013 by lahne

Catalog Pages [Metallurgical Engineering](#)

Using this Program

Start Term Fall 2014

Program Code MT ENG-BS

Department Materials Science & Engineering

Title Metallurgical Engineering BS

Program Requirements and Description

Bachelor of Science Metallurgical Engineering

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

For the Bachelor of Science degree in Metallurgical Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. A student must maintain at least two grade points per credit hour for all courses taken in the student's major department, and an average of at least two grade points per credit hour must be maintained in Metallurgical Engineering.

The Metallurgical Engineering curriculum contains a required number of hours in humanities and social sciences as specified by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. Each student's program of study must contain a minimum of 16 credit hours of course work from the humanities and the social sciences areas and should be chosen according to the following rules:

1. All students are required to take one American history course and one economics course. The history course is to be selected from [HISTORY 112](#), [HISTORY 175](#), [HISTORY 176](#), or [POL SCI 90](#). The economics course may be either [ECON 121](#) or [ECON 122](#).
2. Of the remaining hours, six credit hours must be taken in humanities or social sciences **from the approved list of Humanities at the 400-level or above and Social Science (HSS) courses posted on the Undergraduate Studies website (<http://ugs.mst.edu/>). ~~must be selected from the approved lists. Each of these courses must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 70 to 80 can be considered to be one of these courses.~~ Students (Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the ~~4000~~ ~~300~~ level.)**
3. Skill courses are not allowed to meet humanities and social sciences requirements except in foreign languages or on **the** approved HSS list.
4. Special topics, special problems courses and honors seminars are allowed only by petition to and approval by the student's department chairman.

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 10	1	MET ENG 125 ²	3
CHEM 1	4	MATH 15	4
CHEM 2	1	PHYSICS 23	4
MATH 14	4	History Elective (Government) ¹	3
ENGLISH 20	3	IDE 20	3
Hum/Soc Sci Elective ¹	3		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
PHYSICS 24	4	CER ENG 259	3
MATH 22	4	CIV ENG 110	3
MET ENG 121	3	MET ENG 217	3
CIV ENG 50	3	MET ENG 218	2
ECON 121 or 122 ¹	3	MET ENG 221	3

		MET ENG 222	1
		Hum/Soc Sci Elective ¹	3
	17		18
Junior Year			
First Semester	Credits	Second Semester	Credits
MET ENG 204	3	ENG MGT 124	1
MATH 204 ³	3	ENG MGT 137	2
MET ENG 215	3	MET ENG 202	1
MET ENG 216	2	MET ENG 203	3
MET ENG 307	3	CER ENG 291	3
Communication Elective ¹	3	Out of Department Technical Elective ⁴	3
		Core Elective I ⁵	3
	17		16
Senior Year			
First Semester	Credits	Second Semester	Credits
MET ENG 261	3	MET ENG 262	3
Statistics Course ³	3	Hum/Soc Sci Elective ¹	3
MET ENG 355	3	Technical Elective ⁶	3
Core Elective II ⁵	3	Free Elective ⁷	3
Technical Elective ⁶	3		
	15		12
Total Credits: 128			

¹ Eighteen hours of required H/SS electives of which three hours must be history ([HISTORY 112](#), [HISTORY 175](#), [HISTORY 176](#), or [POL SCI 90](#)), three hours of economics ([ECON 121](#) or [ECON 122](#)) and three hours communications ([ENGLISH 60](#), [ENGLISH 160](#), or [SP&M S 85](#))

² [CHEM 3](#) can be substituted for [MET ENG 125](#)

³ All metallurgical engineering students must either take [MATH 204](#) and one statistics course ([STAT 213](#) or [STAT 215](#)) or an introductory statistics course ([STAT 213](#) or [STAT 215](#)) plus an advanced statistics elective ([ENG MGT 385](#), [STAT 320](#), [STAT 346](#), or [STAT 353](#))

⁴ [CER ENG 251](#) or [CER ENG 364](#) or [CER ENG 392](#), [CHEM ENG 346](#), [CHEM 221](#) or [CHEM 237](#) or [CHEM 241](#), [ELEC ENG 151](#) & [ELEC ENG 152](#) or [ELEC ENG 281](#), [GEOLOGY 113](#), [MATH 204](#) (if two stat courses taken³) or [MATH 303](#) or [MATH 325](#), [MECH ENG 312](#) or [MECH ENG 320](#) or [MECH ENG 329](#) or [MECH ENG 336](#) or [MECH ENG 338](#) or [MECH ENG 382](#), [MIN ENG 241](#), [PHYSICS 107](#) or [PHYSICS 207](#)

⁵ Met Core Electives (9 hours) Core Elective I - Introduction to Particulate Materials ([MET ENG 367](#)) or Corrosion And Its Prevention ([MET ENG 381](#)) Core Elective II - Steelmaking ([MET ENG 358](#)) or Steels And Their Treatment ([MET ENG 331](#))

⁶ Technical Electives (Met Eng or Approved listing)

⁷ Free Electives (5 hours)-algebra, trigonometry, basic ROTC, and courses considered remedial excluded

Note:All Metallurgical Engineering students must take the Fundamentals of Engineering Examination prior to graduation. A passing grade on this examination is not required to earn a B.S. degree; however, it is the first step toward becoming a registered professional engineer. This requirement, together with the department's Senior Assessment, is part of the Missouri S&T assessment process as described in Assessment Requirements found elsewhere in this catalog. Students must sign a release form giving the University access to their Fundamentals of Engineering Examination score.

Justification for
request

Supporting
Documents

Course Reviewer
Comments

Key: 90

Program Change Request

Date Submitted: 01/19/14 6:34 pm

Viewing: **MI ENG-BS : Mining Engineering BS**

File: 95.1

Last edit: 01/19/14 6:34 pm

Changes proposed by: kabp3

Catalog Pages	Mining Engineering	In Workflow <ol style="list-style-type: none"> 1. RMINNUCL Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Using this Program		
Start Term	Fall 2014	
Program Code	MI ENG-BS	
Department	Mining & Nuclear Engineering	
Title	Mining Engineering BS	Approval Path <ol style="list-style-type: none"> 1. 01/19/14 7:17 pm frimpong: Approved for RMINNUCL Chair 2. 01/27/14 11:12 am kleb6b: Approved for CCC Secretary 3. 01/31/14 11:45 am srapar: Approved for Engineering DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post

Program Requirements and Description

Bachelor of Science Mining Engineering

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

For the Bachelor of Science degree in Mining Engineering a minimum of 128 credit hours is required. These requirements are in addition to credit received for algebra, trigonometry, and basic ROTC courses. A student must maintain at least two grade points per credit hour for all courses taken in the student's major department, and an average of at least two grade points per credit hour must be maintained in Mining Engineering.

The Mining Engineering curriculum contains a required number of hours in humanities and social sciences as specified by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. Each student's program of study must contain a minimum of 16 credit hours of course work from the humanities and the social sciences areas and should be chosen according to the following rules:

1. All students are required to take one American history course and one economics course. The history course is to be selected from [HISTORY 112](#), [HISTORY 175](#), [HISTORY 176](#), or [POL SCI 90](#). The economics course may be either [ECON 121](#) or [ECON 122](#). Some disciplines require one humanities course to be selected from the approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater.
2. Of the remaining hours, six credit hours must be taken in humanities or social sciences at the **2000** ~~400~~ level or above and must be selected from the approved lists. Each of these courses must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses ~~numbered 70 to 80~~ can be considered to be one of these courses. (Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the **4000** or **5000** ~~300~~ level.)
3. Some departments list specific requirements; e.g., a psychology course, a literature course, and/or a second semester of economics. Selections should be made to ensure that these requirements are met.
4. Skill courses are not allowed to meet humanities and social sciences requirements except in foreign languages. Students who select the foreign language option are urged to take more than one course.
5. Special topics, special problems courses and honors seminars are allowed only by petition to and approval by the student's department chairman.

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

Freshman Year			
First Semester	Credits	Second Semester	Credits
CHEM 1	4	MATH 15	4
CHEM 2	1	PHYSICS 23	4
CHEM 4	1	IDE 20	3
MATH 14	4	MIN ENG 3⁸	1
FR ENG 10	1	MIN ENG 151	1
GEO ENG 50	3	GEOLOGY 125	3
HISTORY 112 , or 175 , or 176 , or POL SCI 90	3		
	17		16
Sophomore Year			
First Semester	Credits	Second Semester	Credits

MIN ENG 110	2	ENGLISH 20	3
MIN ENG 215	3	PHYSICS 24	4
MATH 22	4	IDE 140 ¹	3
GEOLOGY 220	4	MATH 204	3
ECON 121 or 122	3	MIN ENG 235	3
MIN ENG 225	3		
	19		16
Junior Year			
First Semester	Credits	Second Semester	Credits
MIN ENG 221	3	MIN ENG 324	3
ENGLISH 65	3	MIN ENG 326	3
CIV ENG 230	3	MIN ENG 241	3
STAT 213	3	MIN ENG 331	3
Human/Soc Sc ¹	3	MIN ENG 318	3
		Human/Soc Sc ¹	3
	15		18
Senior Year			
First Semester	Credits	Second Semester	Credits
MIN ENG 317	3	MIN ENG 376	3
MIN ENG 322 ⁸	2	MIN ENG 393 ⁸	4
MIN ENG 307	3	Human/Soc Sc ¹	3
MIN ENG 332	2	Technical Elective ^{2,3,4,5,6,7}	3
MIN ENG 392	1		
Technical Elective ^{2,3,4,5,6,7}	3		
	14		13
Total Credits: 128			

¹ The curriculum contains a total of 21 general education credit hours. The three HSS electives must be from the approved list with at least one course (3 or more hours) that builds on depth and at least one course (3 or more hours) that focuses on the economics of a large enterprise, such as the mining industry, e.g. [ECON 340](#) or [ECON 270](#). The latter also satisfies the depth requirement.

² Explosives Engineering Emphasis: [MIN ENG 350](#) Blasting Design And Technology and either [MIN ENG 301](#) Special Topics, [MIN ENG 390](#) Undergraduate Research (both in an explosives area), [GEO ENG 371](#) Rock Engineering or [MIN ENG 383](#) Tunneling & Underground Construction Techniques have to be taken as Technical Electives.

³ Quarrying Emphasis: [CIV ENG 216](#) Construction Materials, Properties And Testing and [MIN ENG 304](#) Advanced Aggregate and Quarrying have to be taken as Technical Electives.

⁴ Coal Emphasis: [MIN ENG 343](#) Coal Mine Development And Production, [MIN ENG 311](#) Mine Plant Management or an approved substitute course have to be taken as Technical Electives.

⁵ Mining and the Environment Emphasis: [ENV ENG 360](#) Environmental Law And Regulations, [GEO ENG 333](#) Risk Assessment In Environmental Studies, or approved substitute courses have to be taken as Technical Electives.

⁶ Mining Health and Safety Emphasis: [MIN ENG 202](#) Mine Rescue, [ENG MGT 311](#) Human Factors, or other approved substitute courses have to be taken as Technical Electives.

⁷ Sustainable Development Emphasis: [POL SCI 315](#) Principles Of Public Policy, [ECON 340](#) Environmental And Natural Resource Economics, or other approved substitute courses have to be taken as Technical Electives.

⁸ Mining courses offered every semester.

Graduating Mining Engineers Examination

Mining engineering students must complete the Graduating Mining Engineers (GME) Examination prior to graduation as a senior assessment requirement. A passing grade on this examination is required to earn a B.S. degree in mining engineering. ~~The~~ ~~The~~ GME Examination comprises the Surface Mining Engineering (SME) and Underground Mining Engineering (UME) **Examinations. The Examinations.** ~~The~~ ~~The~~ SME Exam focuses on [MIN ENG 215](#) Materials Handling In Mines, [MIN ENG 225 Surface Mine Design](#), ~~[MIN ENG 225 Surface Mine Design](#)~~, ~~[MIN ENG 241](#) Principles Of Mineral Processing~~, [MIN ENG 307](#) Principles Of Explosives Engineering, [MIN ENG 326 Surface Mining Methods And Equipment](#), and [MIN ENG 332 Soils and Overburden Materials for Mining Engineering](#). ~~[MIN ENG 326 Surface Mining Methods And Equipment](#), and [MIN ENG 332 Soils and Overburden Materials for Mining Engineering](#)~~—The UME Exam focuses on [MIN ENG 235](#) Underground Mine Design, [MIN ENG 270](#) Mining Industry Economics, [MIN ENG 317 Mine Power And Drainage](#), ~~[MIN ENG 317 Mine Power And Drainage](#)~~, ~~[MIN ENG 324](#) Underground Mining Methods And Equipment~~, and [MIN ENG 331](#) Rock Mechanics.

Mining engineering students are required to pass the GME Exam in order to graduate. The GME Exam will be graded with Pass or Fail designation. A mark below 50% will be assigned a failing grade and a mark of 85% or above will be a Pass with Distinction. Graduating seniors will have two opportunities to complete the GME requirement. However, students who fail these two attempts can register and complete the examination after completing the required 128 credits in Mining Engineering.

Mining Health and Safety Emphasis

Junior and Senior Years			
MIN ENG 202	Mine Rescue (or approved substitute course in lieu of Technical Elective.)		3
ENG MGT 311	Human Factors (or approved substitute course in lieu of Technical Elective.)		3

Sustainable Development Emphasis

Junior and Senior Years			
POL SCI 315	Principles Of Public Policy (or approved substitute course in lieu of Technical Elective.)		3

ECON 340	Environmental And Natural Resource Economics (or approved substitute course in lieu of Technical Elective.)	3
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Quarrying Engineering Emphasis

Senior Year		
CIV ENG 216	Construction Materials, Properties And Testing (in lieu of Technical Elective.)	3
MIN ENG 304	Advanced Aggregate and Quarrying (in lieu of Technical Elective.)	3

Explosives Engineering Emphasis

Junior and Senior Years		
Select one of the following courses in lieu of Technical Elective in Junior year:		
A 3-hour Explosives Engineering class		
MIN ENG 383	Tunneling & Underground Construction Techniques	
GEO ENG 371	Rock Engineering	
MIN ENG/EXP ENG 350	Blasting Design And Technology (in lieu of Technical Elective in Senior Year.)	3

Coal Emphasis

Junior and Senior Years		
MIN ENG 343	Coal Mine Development And Production (in lieu of Technical Elective.)	3
MIN ENG 311	Mine Plant Management (or approved substitute course in lieu of Technical Elective.)	2

Mining and the Environment Emphasis

Junior and Senior Years		
GEO ENG 235	Course GEO ENG 235 Not Found (or approved substitute course in lieu of Technical Elective.)	
ENV ENG 360	Environmental Law And Regulations	3
GEO ENG 333	Risk Assessment In Environmental Studies (or approved substitute course in lieu of Technical Elective.)	3

Justification for request These changes are requested to comply with the new course numbering system. Some courses were replaced because they no longer exist in the catalog.

Supporting Documents

Course Reviewer Comments

Key: 95

Program Change Request

Date Submitted: 01/19/14 6:35 pm

Viewing: **MI ENG-MI : Mining Engineering Minor**

File: 98.1

Last edit: 01/19/14 6:35 pm

Changes proposed by: kabp3

Catalog Pages	Mining Engineering	In Workflow <ol style="list-style-type: none"> 1. RMINNUCL Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Using this Program		
Start Term	Fall 2014	
Program Code	MI ENG-MI	
Department	Mining & Nuclear Engineering	Approval Path <ol style="list-style-type: none"> 1. 01/19/14 7:17 pm frimpong: Approved for RMINNUCL Chair 2. 01/27/14 11:12 am kleb6b: Approved for CCC Secretary 3. 01/31/14 11:45 am sraper: Approved for Engineering DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Title	Mining Engineering Minor	

Program Requirements and Description

Minor in Mining Engineering

A student who receives a Bachelor of Science degree in an accredited engineering program from Missouri S&T may receive the Minor in Mining Engineering by completing 15 credit hours from the courses listed below. Non-engineering students who have a strong background in mathematics and the physical sciences may also qualify for the Minor in Mining Engineering or Explosives Engineering with the approval of the Department and based on an individually designed program of study. Students will need to consult with the Chair of the Mining Engineering Program to determine pre-requisite requirements for each course. The program granting the Bachelor of Science degree shall determine whether or not courses taken for the Mining Engineering Minor or Explosives Engineering Minor may also be used to fulfill the requirements of the B.S. degree from that program.

The following courses are required for the Minor in Mining Engineering:

MIN ENG 221	Mining Exploration	3
MIN ENG 324	Underground Mining Methods And Equipment	3
MIN ENG 326	Surface Mining Methods And Equipment	3

Two other Mi Eng ~~3000-~~, ~~4000-~~, ~~200-~~ or ~~5000-level~~ ~~300-level~~ Lecture courses (3 credit hours), or relevant courses from other disciplines, as approved, must be taken to match the student's area of emphasis in Mining Engineering. The following areas of emphasis may be pursued:

Explosives Engineering; Quarrying; Mineral Economics; Mining-Environmental; Mining-Equipment; Mining-Geo-technical; Mining-Health and Safety; Mining Operations Management; Mining-Tunneling; Sustainable Development; Surface Mining; Underground Mining.

The Minor in Mining Engineering is not accredited by the Accreditation Board of Engineering and Technology (ABET).

Justification for request	These changes are requested to comply with the new course numbering system.
Supporting Documents	
Course Reviewer Comments	

Key: 98

Program Change Request

Date Submitted: 01/19/14 6:34 pm

Viewing: **MI ENG-MS : Mining Engineering MS**

File: 169.1

Last edit: 01/19/14 6:34 pm

Changes proposed by: kabp3

Catalog Pages	Mining Engineering	In Workflow <ol style="list-style-type: none"> 1. RMINNUCL Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Using this Program		
Start Term	Fall 2014	
Program Code	MI ENG-MS	
Department	Mining & Nuclear Engineering	Approval Path <ol style="list-style-type: none"> 1. 01/19/14 7:18 pm frimpong: Approved for RMINNUCL Chair 2. 01/27/14 11:13 am kleb6b: Approved for CCC Secretary 3. 01/31/14 11:45 am srafer: Approved for Engineering DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Title	Mining Engineering MS	

Program Requirements and Description

The Mining Engineering Program in the Department of Mining and Nuclear Engineering offers the Graduate Certificate (GC), Master of Engineering (ME), Master of Science (MS), Doctor of Philosophy (PhD) and Doctor of Engineering (DE) degrees in Mining ~~Engineering. The Engineering-~~MS and PhD degrees require research components for program ~~completion. The completion-~~core research strengths include surface mining methods and heavy mining machinery, mine ventilation and mine atmospheric control, explosives engineering, sustainable development and mine optimization, rock mechanics and ground control, minerals, coal and materials processing, minerals and energy economics, and underground mining methods and equipment. ~~Graduate~~ ~~Graduate-~~students in any of these programs must consult the graduate degree requirements in Mining Engineering, the graduate catalog of Missouri S&T and their respective advisors.

~~-~~The GC program requires 15 credit hours in core ~~courses. Students courses-Students-~~must have a minimum cumulative GPA of 3.00/4.00 to receive the GC in Mining ~~Engineering. The Engineering-~~The ME program requires a minimum of 30 credit hours, offered via distance ~~(online). The (online)-~~The required credit hours include 15 core credit hours, 12 credit hours in technical electives and 3 credit hours for a semester ~~project. The project-~~MS degree requires a minimum of 30 credit hours, including the required research for the ~~thesis. The thesis-~~program requirements must include a minimum of 6 credit hours of ~~6000-level 400-level-~~courses, 6 credit hours of courses outside the major field, and 6 credit hours for thesis ~~research. MS research-MS-~~candidates must pass a final oral examination of the thesis to complete the ~~program. The program-~~PhD program requires a minimum of 3 years of full-time study beyond the bachelor's degree, including research work for the ~~dissertation. PhD dissertation-~~PhD candidates must complete at least 15 credit hours of course work at Missouri S&T and are ~~a-~~required to ~~[pass~~ the qualifying, comprehensive and final oral examinations of the PhD ~~program. The program-~~DE degree requires a minimum of 3 years of full-time study beyond the bachelor's degree, including research work for the ~~dissertation. DE dissertation-~~DE students must pass the qualifying, comprehensive and final oral examinations and must also satisfy an engineering internship ~~requirement. requirement-~~

Major Research Areas

The eight research major areas include (i) surface mining methods and heavy mining machinery; (ii) mine ventilation and mine atmospheric control; (iii) explosives engineering; (iv) sustainable development and mine optimization; (v) rock mechanics and ground control; (vi) mineral, coal and materials processing; (vii) minerals and energy economics; and (viii) underground mining methods and ~~equipment. equipment-~~Surface mining methods and heavy mining machinery research focuses on surface mining, formation excavation, heavy machinery imaging and integration, mine safety and health, machine and component health, equipment vision, intelligent mining systems and stochastic processes and risks ~~simulation. Specific simulation-Specific-~~research frontiers include (i) mining methods, design and production systems; (ii) formation failure dynamics, machine-formation interactions; (iii) kinematics, dynamics and virtual prototype simulation; (iv) machine health and longevity; (v) augmented equipment vision; (vi) machine vibrations and operator health; (vii) tire durability management; (viii) intelligent excavation; (ix) machine automation; (x) random fields and stochastic processes; (xi) numerical, parametric and stochastic ~~simulation. simulation-~~

~~Mine ventilation and mine atmospheric control research~~ focuses on mine ventilation network modeling and planning, diesel particulate matter (DPM), mine dust control, mine fire simulation and ~~firefighting. Specific firefighting-Specific-~~research frontiers include (i) ventilation network simulation, (ii) DPM discharge dissipation modeling and control strategies, (iii) spontaneous combustion modeling, firefighting and emergency planning; and (iv) computational fluid dynamics modeling of particulate ~~matter. matter-~~Explosives engineering research focuses on improvements in commercial explosives and blasting agents, mining-related uses of explosives, explosives safety, blast-resistant structures, barriers to blast, fragments, and ballistic penetration, and explosive-driven pulsed ~~power. power-~~Specific research frontiers include (i) design, evaluation, analysis, and test; (ii) barrier concepts, standoff distance analysis, barrier design and test; (iii) design, evaluation, analysis, and test of explosive-driven pulsed power generator concepts and power conditioning ~~systems. systems-~~

~~Sustainable development and mine optimization research~~ focuses on reserve estimation and ore control, production scheduling and optimization, and critical materials sustainability assessment and ~~modeling. Specific modeling-Specific-~~research frontiers include (i) geostatistics, ore (dig) outline optimization; (ii) mixed integer LP formulations, computational efficiency, discrete event simulation, optimization, energy efficiency modeling; (iii) mining applications of life cycle assessment, life cycle sustainability assessment, social acceptance modeling, global critical material supply chain sustainability modeling, reclaimed mine land stray-gas ~~hazards. hazards-~~Rock Mechanics and ground control research focuses on ground control, acoustic emission/microseismic, geophysical methods in mines, and non-destructive ~~testing. Specific testing-Specific-~~research frontiers include (i) pillar design, mine support, rockburst, slope stability; (ii) monitoring design, location methods, error analysis; (iii) geotomography, in-seam seismic method, void detection; and (iv) integrity of structures and monitoring of aging ~~infrastructure. infrastructure-~~

~~Minerals, coal and materials processing research~~ focuses on mineral processing, tailings management, polymer science, nanotechnology, interfacial science, colloidal interactions in aqueous systems, clays, coal-based fuels, ultrafine and submicron grinding, slurry rheology, carbon separation and synthetic ~~fuels. fuels-~~Minerals and energy economics research focuses on supply and use of minerals and energy in society, minerals and energy markets and electricity markets, minerals and energy and economic growth, economics of minerals and energy infrastructure, minerals and energy policy, minerals and energy derivatives, minerals and energy demand forecast, elasticity of supply and demand in minerals and energy markets, climate change and climate policy, and sustainable minerals and energy ~~development. development-~~Underground mining methods and equipment research focuses on mass mining, machine design and automation, underground mine support, machine vibration, novel mining methods, numerical modeling, virtual prototype simulation and computational fluid dynamics.

Major Research Facilities

Mining, minerals and explosives engineering research initiatives are carried out in world-class environments at Missouri S&T. Major research facilities include the following:

- [Energetic Materials Research Center](#)
- [Experimental Mine](#)
- [Mineral Processing Laboratory](#)
- [Rock Mechanics and Explosives Research Center](#)
- [Rock Mechanics Laboratory](#)
- [Virtual Surface Mining Simulator](#)
- [High Pressure Waterjet Laboratory](#) ~~Laboratory~~

Justification for request	These changes are requested to comply with the new course numbering system.
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Supporting Documents

Course Reviewer Comments

Key: 169

Program Change Request

New Program Proposal	
Date Submitted: 12/20/13 10:47 am	
Viewing: PROPOSED : Explosives Engineering Emphasis	
File: 229	
Last edit: 12/20/13 10:47 am	
Changes proposed by: pworsey	
Start Term	Fall 2014
Program Code	PROPOSED
Department	Mining & Nuclear Engineering
Title	Explosives Engineering Emphasis
Program Requirements and Description	
Junior and Senior Years	
A) Choose one of the following courses in lieu of Technical Elective in Junior Year: an explosives engineering (EXP ENG) course, Tunneling and Underground Construction Techniques (MIN ENG 4922/5922) or Rock Engineering (GEO ENG 5471).	
B) Blasting Design and Technology (EXP ENG 5622) in lieu of Technical Elective in Senior Year.	
Justification for request	To update to new course numbering system and a minor change due to added courses giving more options.
Supporting Documents	
Course Reviewer Comments	

In Workflow

1. RMINNUCL Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

Approval Path

1. 12/20/13 1:21 pm
frimpong: Approved for RMINNUCL Chair

2. 01/09/14 2:45 pm
lahne: Approved for CCC Secretary

3. 01/27/14 9:02 am
srafer: Approved for Engineering DSCC Chair

4. 02/07/14 10:03 am
kleb6b: Approved for Pending CCC Agenda post

Key: 229

Course Inventory Change Request

Date Submitted: 01/29/14 4:30 pm

Viewing: **BUS 4150 ~~350~~: Customer Focus and Satisfaction**

File: 2317.1

Last edit: 02/05/14 8:54 am

Changes proposed by: barryf

Requested	Fall 2014 12-Aug-13					DSCC Chair	
Effective Change Date						4. Pending CCC Agenda post	
Department	Business and Information Technology					5. CCC Meeting Agenda	
Discipline	Business (BUS)					6. Campus Curricula Committee Chair	
Course Number	4150-350					7. FS Meeting Agenda	
Title	Customer Focus and Satisfaction					8. Faculty Senate Chair	
Abbreviated Course Title	Customer Focus & Satisfaction					9. Registrar	
Catalog Description	Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. A semester long HoQ project will be done.					10. Peoplesoft	
Prerequisites	MKT 3110 341 or MKT 3105 307 or Eng Mgt 3510. 251 BUS 4150 and BUS 5150 cannot both be taken for credit.					Approval Path	
Field Trip Statement						1. 01/29/14 4:45 pm siauk: Approved for RBUSADMN Chair	
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3	2. 01/30/14 9:40 am kleb6b: Approved for CCC Secretary	
Required for Majors	No					3. 02/05/14 8:54 am barryf: Approved for Social Sciences DSCC Chair	
Elective for Majors	No					4. 02/07/14 10:01 am kleb6b: Approved for Pending CCC Agenda post	
Justification for change:	Exclusion of dual credit being added, per Tauritz email of 9/11/2013.						
	Note: This course IS co-listed with MKT 4150! BUS 350 and MKT 350 are co-listed; the new numbers are BUS 4150 and MKT 4150.						
Semesters previously offered as an experimental course							
Co-Listed Courses:	BUS WITH MKT 350 - Course Not Found MKT 350 - Customer Focus and Satisfaction BUS 4150 - Customer Focus and Satisfaction MKT 4150 - Course Not Found						
Course Reviewer Comments							

Key: 2317

Course Inventory Change Request

Date Submitted: 01/29/14 4:49 pm

Viewing: **BUS 4675.TBD ~~375~~: International Business**

File: 2145.1

Last edit: 01/29/14 4:49 pm

Changes proposed by: barryf

Requested	Fall 2014 18 Aug 08				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Business (BUS)				
Course Number	4675 375				
Title	International Business				
Abbreviated Course Title	International Business				
Catalog Description	This survey course will deal with business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy.				
Prerequisites	MKT 3110 344 or MKT 5105 407 or Eng Mgt 3510. 251 BUS 4675 and BUS 5675 cannot both be taken for credit.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	Adding exclusion of dual credit per Tauritz memo of 9/11/2013.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

In Workflow

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

Approval Path

1. 01/29/14 4:50 pm
siau: Approved for RBUSADMN Chair
2. 01/30/14 9:26 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:55 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 2145

Course Inventory Change Request

New Course Proposal

Date Submitted: 01/29/14 9:30 am

Viewing: **BUS 5085.TBD : Internship**

File: 4043

Last edit: 01/29/14 9:30 am

Changes proposed by: barryf

Requested	Fall 2014
Effective Change Date	
Department	Business and Information Technology
Discipline	Business (BUS)
Course Number	5085
Title	Internship
Abbreviated Course Title	Internship

Catalog Description	Students apply critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employer. Activities will vary depending on the student's background and the setting. Requires major report and formal presentation to sponsoring organization.				
Prerequisites	Graduate standing				
Field Trip Statement					
Credit Hours	LEC: 0	LAB: 0	IND: 0-6	RSD: 0	Total: 0-6
Required for Majors	No				
Elective for Majors	Yes				

Justification for new course: Correction to prerequisite, which now shows as BUS 420, an inactive course.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer
Comments

In Workflow

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

Approval Path

1. 01/29/14 4:45 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 9:26 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:55 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4043

Course Inventory Change Request

Date Submitted: 01/29/14 4:43 pm

Viewing: **BUS 5150 450-: Advanced Customer Focus and Satisfaction**

File: 2318.1

Last edit: 01/30/14 9:41 am

Changes proposed by: barryf

Requested	Fall 2014 15-Aug-11				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Business (BUS)				
Course Number	5150-450				
Title	Advanced Customer Focus and Satisfaction				
Abbreviated Course Title	Advanced Customer Focus				
Catalog Description	Major emphasis is given to the concept of customer focus, with coverage of techniques for obtaining customer needs, measuring customer satisfaction, developing products and services to satisfy customers, and maximizing the benefits of customer feedback. Individual focused research is included.				
Prerequisites	MKT 3110 341 or MKT 3105 307 or Eng Mgt 3510. 251 (Co-listed with MKT 5150). BUS 4150 and BUS 5150 cannot both be taken for credit.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	Exclusion of dual credit being added, per Tauritz memo of 9/11/2013. System does not seem to be picking up co-list correctly -- BUS 5150 is co-listed with MKT 5150; BUS 4150 is co-listed with MKT 4150.				
Semesters previously offered as an experimental course					
Co-Listed Courses:	MKT 450- Advanced Customer Focus and Satisfaction WITH MKT 5150 450- Course Not Found				
Course Reviewer					
Comments					

In Workflow

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

Approval Path

1. 01/29/14 4:46 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 9:42 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:56 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 2318

Course Inventory Change Request

Date Submitted: 01/29/14 4:51 pm

Viewing: **BUS 5675.TBD 475: Advanced International Business**

File: 2146.1

Last edit: 01/29/14 4:51 pm

Changes proposed by: barryf

Requested	Fall 2014 18-Aug-08				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Business (BUS)				
Course Number	5675 475				
Title	Advanced International Business				
Abbreviated Course Title	Adv International Business				
Catalog Description	Business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy. Research project required.				
Prerequisites	MKT 3110 311 or MKT 5105 407 or Eng Mgt 3510 251 BUS 4675 and BUS 5675 cannot both be taken for credit.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	Adding dual credit exclusion per Tauritz memo of 9/11/2013.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

In Workflow

- 1. RBUSADMN Chair**
- 2. CCC Secretary**
- 3. Social Sciences DSCC Chair**
- 4. Pending CCC Agenda post**
- 5. CCC Meeting Agenda**
- Campus Curricula Committee Chair
- FS Meeting Agenda
- Faculty Senate Chair
- Registrar
- Peoplesoft

Approval Path

- 01/29/14 5:02 pm
siau: Approved for RBUSADMN Chair
- 01/30/14 9:27 am
kleb6b: Approved for CCC Secretary
- 02/05/14 8:57 am
barryf: Approved for Social Sciences DSCC Chair
- 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 2146

Course Inventory Change Request

New Course Proposal					
Date Submitted: 01/24/14 11:53 am					
Viewing: COMP SCI 1972 : Introduction to MATLAB Programming					
File: 4038					
Last edit: 01/24/14 11:53 am					
Changes proposed by: tauritzd					
Requested	Fall 2014				
Effective Change Date					
Department	Computer Science				
Discipline	Computer Science (COMP SCI)				
Course Number	1972				
Title	Introduction to MATLAB Programming				
Abbreviated Course Title	MATLAB Programming				
Catalog Description	Programming design and development using MATLAB for non-CS majors. Strong emphasis placed on algorithmic problem solving methods using good programming practices. Introduction to built-in functions including plotting, as well as logical/relational/arithmetic operators, decision branching, loops, functions, file I/O, datastructures, and output formatting.				
Prerequisites	Accompanied by Comp Sci 1982.				
Field Trip Statement					
Credit Hours	LEC: 2	LAB: 0	IND: 0	RSD: 0	Total: 2
Required for Majors	No				
Elective for Majors	No				
Justification for new course:	Requested by students, faculty, and departments.				
Semesters previously offered as an experimental course	This course is a mirror-image of the two existing programming courses for non-majors, Comp Sci 1970 and Comp Sci 1971, the main difference being the programming language taught. We therefore argue that this is not an experimental course and request immediate permanent status.				
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

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

Approval Path

1. 01/24/14 1:50 pm
sdas: Approved for RCOMPSCI Chair
2. 01/27/14 8:49 am
kleb6b: Approved for CCC Secretary
3. 02/06/14 6:51 pm
tauritzd: Approved for Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4038

Course Inventory Change Request

New Course Proposal					
Date Submitted: 01/24/14 11:53 am					
Viewing: COMP SCI 1982 : MATLAB Programming Laboratory					
File: 4039					
Last edit: 01/24/14 11:53 am					
Changes proposed by: tauritzd					
Requested	Fall 2014				
Effective Change Date					
Department	Computer Science				
Discipline	Computer Science (COMP SCI)				
Course Number	1982				
Title	MATLAB Programming Laboratory				
Abbreviated Course Title	MATLAB Programming Lab				
Catalog Description	Practical application of concepts learned in Comp Sci 1972. Hands-on instruction in MATLAB developing, debugging and testing programming projects.				
Prerequisites	Accompanied by Comp Sci 1982.				
Field Trip Statement					
Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0	Total: 1
Required for Majors	No				
Elective for Majors	No				
Justification for new course:	Requested by students, faculty, and departments.				
Semesters previously offered as an experimental course	This course is a mirror-image of the two existing programming lab courses for non-majors, Comp Sci 1980 and Comp Sci 1981, the main difference being the programming language taught. We therefore argue that this is not an experimental course and request immediate permanent status.				
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

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

Approval Path

1. 01/24/14 1:50 pm
sdas: Approved for RCOMPSCI Chair
2. 01/27/14 8:50 am
kleb6b: Approved for CCC Secretary
3. 02/06/14 6:51 pm
tauritzd: Approved for Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4039

Course Inventory Change Request

Date Submitted: 01/29/14 10:01 am

Viewing: **COMP SCI 228 : Introduction To Numerical Methods**

File: 441.1

Last edit: 01/29/14 10:01 am

Changes proposed by: tauritzd

Catalog Pages referencing this course	Mathematics	In Workflow
Programs referencing this course	AE ENG-BS: Aerospace Engineering BS AP MATH-BS: Applied Mathematics BS CMP SC-BS: Computer Science BS CMP SC-MI: Computer Science Minor MATH-MI: Mathematics Minor MC ENG-BS: Mechanical Engineering BS NU ENG-BS: Nuclear Engineering BS	1. RCOMPSCI Chair 2. CCC Secretary 3. Sciences DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Other Courses referencing this course	In The Catalog Description: COMP SCI 328 : Object-Oriented Numerical Modeling I COMP SCI 358 : Interactive Computer Graphics In The Prerequisites: NUC ENG 311 : Reactor Physics II	Approval Path
Requested Effective Change Date	Fall 2014 12 Aug 13	1. 01/29/14 5:16 pm sdas: Approved for RCOMPSCI Chair
Department	Computer Science	2. 01/30/14 9:28 am kleb6b: Approved for CCC Secretary
Discipline	Computer Science (COMP SCI)	3. 02/06/14 6:42 pm tauritzd: Approved for Sciences DSCC Chair
Course Number	228	4. 02/07/14 10:01 am kleb6b: Approved for Pending CCC Agenda post
Title	Introduction To Numerical Methods	
Abbreviated Course Title	Intro To Numerical Methods Meth	
Catalog Description	Finite difference interpolation, numerical differentiation and integration, linear systems of equations, solution of nonlinear equations, numerical solution of ordinary differential equations, computational techniques and the programming of a large number of problems on digital computers.	
Prerequisites	Programming competency and a "C" A "C" or better grade in either Math 1215 or Math 1221. Calc II and programming competency.	
Field Trip Statement		
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	
Required for Majors	Yes No	
Elective for Majors	No	

Specifying the 4-digit numbers for the Calc II courses.

Justification for
change:
Semesters
previously
offered as an
experimental
course
Co-Listed
Courses:
Course Reviewer
Comments

Key: 441

Course Inventory Change Request

Date Submitted: 01/29/14 10:02 am

Viewing: **COMP SCI 253 : Algorithms**

File: 446.1

Last edit: 02/06/14 6:42 pm

Changes proposed by: tauritzd

Programs referencing this course	CMP SC-BS: Computer Science BS CMP SC-MI: Computer Science Minor	In Workflow 1. RCOMPSCI Chair 2. CCC Secretary 3. Sciences DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Other Courses referencing this course	In The Catalog Description: COMP SCI 307 : Software Testing And Quality Assurance COMP SCI 347 : Introduction To Artificial Intelligence COMP SCI 354 : Mathematical Logic I COMP SCI 358 : Interactive Computer Graphics COMP SCI 384 : Distributed Operating Systems COMP SCI 387 : Introduction to Parallel Programming and Algorithms PHILOS 354 : Mathematical Logic I In The Prerequisites: COMP ENG 354 : Mathematical Logic I COMP SCI 206 : Software Engineering I COMP SCI 263 : Introduction to Computer Security COMP SCI 308 : Object-Oriented Analysis And Design COMP SCI 325 : Analysis Of Algorithms COMP SCI 342 : Java Gui & Visualization COMP SCI 346 : Introduction to Computer Vision COMP SCI 348 : Evolutionary Computing COMP SCI 354 : Mathematical Logic I COMP SCI 356 : The Structure of a Compiler COMP SCI 388 : Introduction to High Performance Computer Architecture MATH 354 : Mathematical Logic I	
Requested Effective Change Date	Fall 2014 12-Aug-13	Approval Path 1. 01/29/14 5:17 pm sdas: Approved for RCOMPSCI Chair 2. 01/30/14 9:28 am kleb6b: Approved for CCC Secretary 3. 02/06/14 6:43 pm tauritzd: Approved for Sciences DSCC Chair 4. 02/07/14 10:01 am kleb6b: Approved for Pending CCC Agenda post
Department	Computer Science	
Discipline	Computer Science (COMP SCI)	
Course Number	253	
Title	Algorithms	
Abbreviated Course Title	Algorithms	
Catalog Description	Students will solve recurrence relations, analyze algorithms for correctness and time/space complexity, apply these analysis techniques to fundamental dynamic programming, greedy, shortest-path, minimal spanning trees, and maximum flow algorithms and validate these analyses through programming.	
Prerequisites		

A "C" or better grade in both Comp Sci ~~1200 128~~ and Comp Sci ~~1510; 153~~, preceded by a "C" or better grade in ~~either Math 1208 Calc I~~ or ~~Math 1214, or~~ accompanied by ~~either Math 1208 or Math 1214. Calc I.~~

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 Specifying the 4-digit numbers for the Calc I courses.
change:

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 446

Course Inventory Change Request

Date Submitted: 01/29/14 10:06 am

Viewing: **COMP SCI 461 : Privacy Preserving Data Integration and Analysis**

File: 2374.1

Last edit: 01/29/14 10:06 am

Changes proposed by: tauritzd

Requested	Fall 2014 12-Aug-13				
Effective Change Date					
Department	Computer Science				
Discipline	Computer Science (COMP SCI)				
Course Number	461				
Title	Privacy Preserving Data Integration and Analysis				
Abbreviated Course Title	Secure Data Analysis				
Catalog Description	This course covers basic tools, in statistics and cryptography, commonly used to design privacy-preserving and secure protocols in a distributed environment as well as recent advances in the field of privacy-preserving data analysis, data sanitization and information retrieval.				
Prerequisites	A "C" or better grade in both Comp Sci 5300 338 and Comp Sci 3600 . 262 .				
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:	The old Comp Sci 262 prereq was a typo, it should have been Comp Sci 263. This corrects that typo employing the corresponding 4-digit course numbers.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					

In Workflow

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

Approval Path

1. 01/29/14 5:17 pm
sdas: Approved for RCOMPSCI Chair
2. 01/30/14 9:29 am
kleb6b: Approved for CCC Secretary
3. 02/06/14 6:43 pm
tauritzd: Approved for Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Course Reviewer

Comments

Key: 2374

Course Inventory Change Request

New Course Proposal					
Date Submitted: 01/13/14 10:35 am					
Viewing: ELEC ENG 4380 : Practicum in Automation Engineering					
File: 4032					
Last edit: 01/27/14 8:51 am					
Changes proposed by: kte					
Requested	Fall 2014				
Effective Change Date					
Department	Electrical and Computer Engineering				
Discipline	Electrical Engineering (ELEC ENG)				
Course Number	4380				
Title	Practicum in Automation Engineering				
Abbreviated Course Title	Practicum in Auto Engr				
Catalog Description	Students on an approved internship or cooperative education assignment with industry will complete a project designed by the advisor and employer. The project selected must be related to topics in one or more of the other courses in the Automation Engineering Minor program. The same work period cannot receive credit for both Elec Eng 3002 and Elec Eng 4380.				
Prerequisites	Elec Eng 3340				
Field Trip Statement					
Credit Hours	LEC: 0	LAB: 3	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	Yes				
Justification for new course:	A course in the new proposed Minor in Automation Engineering. Documents on-the-job experience in the field of automation engineering. The project is designed before the work period and must be related to automation engineering.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

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

Approval Path

1. 01/13/14 10:37 am
kte: Approved for RELECENG Chair
2. 01/27/14 8:51 am
kleb6b: Approved for CCC Secretary
3. 01/31/14 11:46 am
srapar: Approved for Engineering DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4032

Course Inventory Change Request

New Course Proposal					
Date Submitted: 01/27/14 10:53 am					
Viewing: ENG MGT 252.TBD : Financial Management					
File: 4042					
Last edit: 01/27/14 10:53 am					
Changes proposed by: sraper					
Requested	Summer 2014				
Effective Change Date					
Department	Engineering Management and Systems Engineering				
Discipline	Engineering Management (ENG MGT)				
Course Number	252				
Title	Financial Management				
Abbreviated Course Title	Financial Management				
Catalog Description	Organization of financial function in the technically based enterprise; analysis and projection of financial statements, cost elements in pricing, cost control and design of accounting systems.				
Prerequisites	Eng Mgt 134 and 147. A Grade of "C" or better is required in this course to meet engineering Engineering Management degree requirements.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 3	Total: 3
Required for Majors	No				
Elective for Majors	Yes				
Justification for new course:	This is not a new course. It is a repressed course that had Eng Mgt 134 and 230 as the prerequisites. Currently Eng Mgt 252 is not available on the course editor. This was the suggested method to change the prerequisite of Eng Mgt 230 to 147.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

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. Peoplesoft

Approval Path

1. 01/27/14 12:51 pm
enke: Approved for RENG MNGT Chair
2. 01/27/14 4:16 pm
kleb6b: Approved for CCC Secretary
3. 01/31/14 11:45 am
sraper: Approved for Engineering DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4042

Course Inventory Change Request

Date Submitted: 01/30/14 9:16 am

Viewing: **FINANCE 5160.TBD 350: Corporate Finance II**

File: 500.1

Last edit: 01/30/14 9:16 am

Changes proposed by: barryf

Requested	Fall 2014 16 Aug 10				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Finance (FINANCE)				
Course Number	5160 350				
Title	Corporate Finance II				
Abbreviated Course Title	Corporate Finance II				
Catalog Description	This course provides a rigorous and consistent presentation of the theory of financial decisions. Capital markets are analyzed under assumptions of risk aversion and uncertainty. Models of modern portfolio theory are discussed including the CAPM and the Modigliani-Miller analysis.				
Prerequisites	FIN 2150 or ENG MGT 2211. Finance 250 or Eng Mgt 147 or Eng Mgt 252.				
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:	Eng Mgt 252 does not appear in the online Joe'SS course list anymore (although there was a new number for it in the original renumbering charts). The instructor believes that students will have taken IS&T 250 or Eng Mgt 147 anyway.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

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

Approval Path

1. 01/30/14 12:11 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 12:55 pm
kleb6b: Approved for CCC Secretary
3. 02/04/14 9:24 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 500

Course Inventory Change Request

Date Submitted: 01/30/14 9:26 am

Viewing: **FINANCE 5260.TBD 360-: Investments I**

File: 2190.1

Last edit: 01/30/14 9:26 am

Changes proposed by: barryf

Requested	Fall 2014 16 Aug 10				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Finance (FINANCE)				
Course Number	5260 360				
Title	Investments I				
Abbreviated Course Title	Investments I				
Catalog Description	Introduction to fundamental elements of investment analysis. Students learn financial tools and gain necessary knowledge to select among alternative financial assets. Real world experience includes stock analysis, portfolio simulations and interactions with professionals in the securities industry.				
Prerequisites	FIN 2150 or ENG MGT 2211. Finance 250 or Eng Mgt 147 or Eng Mgt 252.				
Field Trip Statement	Field trip required.				
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	Eng Mgt 252 does not appear in the online Joe'SS course list anymore (although there was a new number for it in the original renumbering charts). The instructor believes that students will have taken IS&T 250 or Eng Mgt 147 anyway.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

In Workflow

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

Approval Path

1. 01/30/14 12:11 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 12:56 pm
kleb6b: Approved for CCC Secretary
3. 02/04/14 9:25 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 2190

Course Inventory Change Request

New Course Proposal

Date Submitted: 01/20/14 11:52 am

Viewing: **FRENCH 4320 : French and Francophone Cinema**

File: 4035

Last edit: 01/30/14 8:03 am

Changes proposed by: audram

Requested	Fall 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	French (FRENCH)
Course Number	4320
Title	French and Francophone Cinema
Abbreviated Course Title	French Cinema

Catalog Description	A survey of French and Francophone cinema.
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Prerequisites	French 2170 or instructor's consent.
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Field Trip Statement	
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Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
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Required for Majors	No
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Elective for Majors	No
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Justification for new course:	Expand course offerings for French and Art Minors and provide further opportunities for students to learn about 1) French and Francophone culture, and 2) cinema.
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Semesters previously offered as an experimental course	Fall 2012 Spring 2011
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Co-Listed Courses:	Art 4320 - Course Not Found
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Course Reviewer Comments	ivliyeva (01/30/14 7:48 am): We would like to co-list with ART, but Art 4320 does not exist. Please let us know what we need to do to co-list.
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In Workflow

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

Approval Path

1. 01/21/14 6:22 am
lance: Approved for RPHILOSO Chair
2. 01/27/14 8:53 am
kleb6b: Approved for CCC Secretary
3. 01/30/14 7:48 am
ivliyeva: Approved for Arts & Humanities DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4035

Course Inventory Change Request

Date Submitted: 10/30/13 8:34 am

Viewing: **GEO ENG 343 : Subsurface Exploration**

File: 777.1

Last edit: 01/09/14 9:23 am

Changes proposed by: patty

Programs referencing this course	<u>GE ENG-BS: Geological Engineering BS</u>	In Workflow 1. RGEOSENG Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda
Requested Effective Change Date	Summer 2014 1 Jul 04	6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Department	Geological Science and Engineering	Approval Path 1. 10/30/13 2:33 pm refflori: Approved for RGEOSENG Chair 2. 01/09/14 9:23 am lahne: Approved for CCC Secretary 3. 01/27/14 8:48 am sraper: Approved for Engineering DSCC Chair 4. 02/07/14 10:02 am kleb6b: Approved for Pending CCC Agenda post
Discipline	Geological Engineering (GEO ENG)	
Course Number	343	
Title	Subsurface Exploration	
Abbreviated Course Title	Subsurface Exploration	
Catalog Description	Lectures and field and laboratory exercises in the use of geologic and geophysical techniques for evaluation of subsurface geology and resources.	
Prerequisites	GEO ENG 50 Civ Eng 215 or Pet Eng 131.	
Field Trip Statement	Course requires a field trip.	
Credit Hours	LEC: 2 LAB: 1 IND: 0 RSD: 0 Total: 3	
Required for Majors	Yes No	
Elective for Majors	No	
Justification for change:	Pet Eng 131 is not taught anymore. Civ Eng 215 is not a required class for majors, but GE 343 is; thus this prerequisite effectively make Civ Eng 215 a required class.	
Semesters previously offered as an experimental course		
Co-Listed Courses:		
Course Reviewer		
Comments		

Key: 777

Course Inventory Change Request

New Course Proposal

Date Submitted: 10/08/13 9:57 am

Viewing: **GEO ENG 436 : Advanced Geophysical Methods**

File: 4011

Last edit: 11/21/13 10:52 am

Changes proposed by: patty

Requested	Summer 2014
Effective Change Date	
Department	Geological Science and Engineering
Discipline	Geological Engineering (GEO ENG)
Course Number	436
Title	Advanced Geophysical Methods
Abbreviated Course Title	Adv Geoph Methods

In Workflow

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

Catalog Description	Geophysical field data will be acquired at selected study sites with the objective of imaging the shallow subsurface and/or built structures. Registrants will process and interpret the acquired non-invasive imaging data using ground truth as a constraint.				
Prerequisites	Graduate standing				
Field Trip Statement					
Credit Hours	LEC: 1	LAB: 2	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	Yes				

Approval Path

1. 10/30/13 2:33 pm
reflori: Approved for RGEOSENG Chair
2. 11/21/13 10:53 am
lahne: Approved for CCC Secretary
3. 12/16/13 2:55 pm
srafer: Approved for Engineering DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Justification for new course:	Department request.
Semesters previously offered as an experimental course	Summer 2012 & 2013
Co-Listed Courses:	

Course Reviewer
Comments

Key: 4011

Course Inventory Change Request

Date Submitted: 01/28/14 7:21 am

Viewing: **HISTORY 3360.TBD ~~348~~: Recent United States History**

File: 907.1

Last edit: 01/28/14 1:33 pm

Changes proposed by: lgragg

Requested **Fall 2014** ~~12 Jan 78~~

Effective Change
Date

Department History and Political Science

Discipline History (HISTORY)

Course Number **3360** ~~348~~

Title Recent United States History

Abbreviated
Course Title Recent U.S. History

Catalog
Description Examines America's modern age including the New Era, the New Deal, Internationalism, post-war affluence, the post-industrial era as well as the cultural, intellectual, social and technological features of American society from 1920 to the present.

Prerequisites **History 176** ~~History 176 or 347~~

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: Deleted Prerequisite History 347 which is no longer active.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

In Workflow

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

Approval Path

1. 01/28/14 8:37 am
lgragg: Approved for RHISTORY Chair
2. 01/28/14 8:41 am
kleb6b: Approved for CCC Secretary
3. 01/28/14 1:33 pm
ivliyeva: Approved for Arts & Humanities DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Course Reviewer

Comments

Key: 907

Course Inventory Change Request

Date Submitted: 01/28/14 7:23 am

Viewing: **HISTORY 3450.TBD 352: American Intellectual History II**

File: 1587.1

Last edit: 01/28/14 1:32 pm

Changes proposed by: lgragg

Requested	Fall 2014 1 Jan 00				
Effective Change Date					
Department	History and Political Science				
Discipline	History (HISTORY)				
Course Number	3450 352				
Title	American Intellectual History II				
Abbreviated Course Title	Amer Intelctual Hist II				
Catalog Description	The ideas of intellectuals and the thought of popular culture, and possible relationships between the two. Among the climates of opinion studied are the Gilded Age, Darwinism, Progressivism, the Twenties, the Great Depression, the Affluent Fifties, the Counter-Culture Sixties.				
Prerequisites	History 176. History 176 or 351.				
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:	Deleted History 351 which is an inactive course.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

In Workflow

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

Approval Path

1. 01/28/14 8:37 am
lgragg: Approved for RHISTORY Chair
2. 01/28/14 8:41 am
kleb6b: Approved for CCC Secretary
3. 01/28/14 1:32 pm
ivliyeva: Approved for Arts & Humanities DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 1587

Course Inventory Change Request

Date Submitted: 02/04/14 4:25 pm

Viewing: **IS&T 1551 51: Implementing Information Systems: User Perspective**

File: 917.1

Last edit: 02/04/14 4:25 pm

Changes proposed by: barryf

Requested **Fall 2014 ~~18-Aug-08~~**
 Effective Change
 Date
 Department **Business and Information Technology ~~RINFSCTE~~**
 Discipline Info Science & Technology (IS&T)
 Course Number **1551 ~~51~~**
 Title Implementing Information Systems: User Perspective
 Abbreviated Info Sys: User Perspective
 Course Title

Catalog Description Introduction to object-oriented programming in the context of developing and implementing the various components of an information system with particular attention given to system interface such as window and web forms. Class will include numerous projects covering foundational programming.

Prerequisites **~~IS&T 50.~~**

Field Trip
Statement

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

Required for
Majors No

Elective for
Majors No

Justification for
change: The instructor believes that the course does not require any prerequisites. It is an entry-level course.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

In Workflow

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

Approval Path

1. 02/04/14 4:54 pm
siau: Approved for RBUSADMN Chair
2. 02/05/14 8:11 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:45 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Course Reviewer

Comments

Key: 917

Course Inventory Change Request

Date Submitted: 01/29/14 7:40 pm

Viewing: **IS&T 4261** ~~361~~: Information Systems Project Management

File: 935.1

Last edit: 01/29/14 10:38 pm

Changes proposed by: barryf

Requested **Fall 2014** ~~12-Aug-13~~
 Effective Change
 Date
 Department **Business and Information Technology** ~~RINFSCTE~~
 Discipline Info Science & Technology (IS&T)
 Course Number **4261** ~~361~~
 Title Information Systems Project Management
 Abbreviated Info Syst Project Mgt
 Course Title

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

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

Field Trip Statement

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

Required for Majors No

Elective for Majors No

Justification for change: Adding exclusion of dual credit per Tauritz memo of 9/11/2013.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer
 Comments

In Workflow

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

Approval Path

1. 01/29/14 10:38 pm
siau: Approved for RBUSADMN Chair
2. 01/30/14 9:29 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:57 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 935

Course Inventory Change Request

Date Submitted: 02/04/14 4:25 pm

Viewing: **IS&T 4335 335: Fundamentals of Mobile Technology for Business**

File: 2391.1

Last edit: 02/04/14 4:25 pm

Changes proposed by: barryf

Requested **Fall 2014 ~~15 Jan 13~~**
 Effective Change
 Date
 Department **Business and Information Technology ~~RINFSCTE~~**
 Discipline Info Science & Technology (IS&T)
 Course Number **4335 ~~335~~**
 Title Fundamentals of Mobile Technology for Business
 Abbreviated Fund MobileTech for Bus
 Course Title

Catalog Description A broad overview of mobile technology use in business environments. Topics include the mobile industry; mobile network and wireless standards; mobile devices; mobile web design and app development; social and user experience issues; mobile marketing and commerce. **Cannot take both IS&T 335 and IS&T 435.**

Prerequisites **IS&T 3333. ~~223 and IS&T 233~~ IS&T 4335 and IS&T 5335 cannot both be taken for credit.**

Field Trip
Statement

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

Required for
Majors No

Elective for
Majors No

Justification for
change: Instructor believes that IS&T 3333 prerequisite is sufficient.
Exclusion of dual credit was previously moved (during renumbering).

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

In Workflow

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

Approval Path

1. 02/04/14 4:54 pm
siauk: Approved for RBUSADMN Chair
2. 02/05/14 8:11 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:46 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Course Reviewer
Comments

Key: 2391

Course Inventory Change Request

Date Submitted: 01/29/14 7:25 pm

Viewing: **IS&T 4641 ~~241~~: Electronic and Mobile Commerce**

File: 925.1

Last edit: 01/29/14 10:38 pm

Changes proposed by: barryf

Requested	Fall 2014 15 Jan 13				
Effective Change Date					
Department	Business and Information Technology RINFSCTE				
Discipline	Info Science & Technology (IS&T)				
Course Number	4641 241				
Title	Electronic and Mobile Commerce				
Abbreviated Course Title	Electronic and Mobile Commerce				
Catalog Description	Introduction to fundamental concepts of management and application to IT and support of commerce. Examines the use of IT in business processes and the management issues of integrating IT into organization processes to gain a competitive advantage.				
Prerequisites	IS&T 1750 50 and at least Sophomore standing. IS&T 4641 and IS&T 5641 cannot both be taken for credit.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				

Justification for change: Adding exclusion of dual credit, per Tauritz memo of 9/11/2013.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer
Comments

In Workflow

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

Approval Path

1. 01/29/14 10:38 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 9:29 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:58 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 925

Course Inventory Change Request

New Course Proposal

Date Submitted: 01/29/14 9:36 am

Viewing: **IS&T 4642.TBD : E-Commerce Architecture**

File: 4044

Last edit: 01/29/14 9:36 am

Changes proposed by: barryf

Requested	Fall 2014
Effective Change Date	
Department	Business and Information Technology
Discipline	Info Science & Technology (IS&T)
Course Number	4642
Title	E-Commerce Architecture
Abbreviated Course Title	E-Commerce Architecture

Catalog Description	Course will cover the issues associated with computer architecture, as it relates specifically to e-commerce applications. Topics will include e-commerce systems and processes, specialized software, and databases.				
Prerequisites	IS&T 3333				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	Yes				

Justification for new course: Correction of prerequisite, which now provides IS&T 336 as an alternate. IS&T 336 no longer exists and IS&T 3333 is the only (and correct) prerequisite.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

In Workflow

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

Approval Path

1. 01/29/14 4:47 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 9:30 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:58 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4044

Course Inventory Change Request

Date Submitted: 01/29/14 7:36 pm

Viewing: **IS&T 4654 286: Web and Digital Media Development**

File: 920.1

Last edit: 02/05/14 8:59 am

Changes proposed by: barryf

Requested **Fall 2014 ~~16 Aug 10~~**
 Effective Change
 Date
 Department **Business and Information Technology ~~RINFSCTE~~**
 Discipline Info Science & Technology (IS&T)
 Course Number **4654 ~~286~~**
 Title Web and Digital Media Development
 Abbreviated Web and Digital Media Dev
 Course Title

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

Prerequisites **IS&T 1750. ~~50~~ IS&T 4654 and IS&T 5654 cannot both be taken for credit.**

Field Trip
Statement

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

Required for
Majors No

Elective for
Majors No

Justification for
change: Exclusion of dual credit added, per Tauritz memo of 9/11/2013.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

In Workflow

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

Approval Path

1. 01/29/14 10:32 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 9:30 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 8:59 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Course Reviewer
Comments

Key: 920

Course Inventory Change Request

Date Submitted: 01/29/14 7:42 pm

Viewing: **IS&T 5261.TBD 461: Advanced Information Systems Project Management**

File: 2254.1

Last edit: 01/29/14 7:42 pm

Changes proposed by: barryf

Requested **Fall 2014 ~~16 Aug 10~~**
 Effective Change
 Date
 Department **Business and Information Technology ~~RINFSCTE~~**
 Discipline Info Science & Technology (IS&T)
 Course Number **5261-461**
 Title Advanced Information Systems Project Management
 Abbreviated Adv IS Project Management
 Course Title

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

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

Field Trip
Statement

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

Required for
Majors No

Elective for
Majors No

Justification for
change: Adding exclusion of dual credit per Tauritz memo of 9/11/2013.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Course Reviewer
Comments

In Workflow

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

Approval Path

1. 01/29/14 10:32 pm
siauk: Approved for RBUSADMN Chair
2. 01/30/14 9:31 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 9:00 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 2254

Course Inventory Change Request

Date Submitted: 02/04/14 4:26 pm

Viewing: **IS&T 5335 435-: Mobile Technology for Business**

File: 1871.1

Last edit: 02/04/14 4:26 pm

Changes proposed by: barryf

Requested	Fall 2014 15 Jan 13				
Effective Change Date					
Department	Business and Information Technology RINFSCTE				
Discipline	Info Science & Technology (IS&T)				
Course Number	5335 435				
Title	Mobile Technology for Business				
Abbreviated Course Title	Mobile Technology for Business				
Catalog Description	Overview of mobile technology use in business environments. Topics include: mobile industry; mobile network and wireless standards; mobile devices; mobile web design and app development; social and user experience issues; mobile marketing and commerce. Project required. Cannot take both IS&T 335 and IS&T 435.				
Prerequisites	IS&T 3333 223 or equivalent, IS&T 223 or equivalent , Graduate standing. IS&T 4335 and IS&T 5335 cannot both be taken for credit.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	Instructor believes that IS&T 3333 prerequisite is sufficient. The exclusion of dual credit note was previously moved (during renumbering).				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

- 1. RBUSADMN Chair**
- 2. CCC Secretary**
- 3. Social Sciences DSCC Chair**
- 4. Pending CCC Agenda post**
- 5. CCC Meeting Agenda**
- Campus Curricula Committee Chair
- FS Meeting Agenda
- Faculty Senate Chair
- Registrar
- Peoplesoft

Approval Path

- 02/04/14 4:54 pm
siauk: Approved for RBUSADMN Chair
- 02/05/14 8:11 am
kleb6b: Approved for CCC Secretary
- 02/05/14 8:47 am
barryf: Approved for Social Sciences DSCC Chair
- 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 1871

Course Inventory Change Request

New Course Proposal					
Date Submitted: 01/28/14 5:46 pm					
Viewing: IS&T 5420 : Introduction to Big Data Analytics					
File: 4040					
Last edit: 01/28/14 5:46 pm					
Changes proposed by: barryf					
Requested	Fall 2014				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Info Science & Technology (IS&T)				
Course Number	5420				
Title	Introduction to Big Data Analytics				
Abbreviated Course Title	Intro Big Data Analytics				
Catalog Description	This course addresses the foundations of using predictive statistics on big data sets to impact decision-making. Focus is applied examples using realistic data. Models implemented include regression (parametric/nonparametric), classification, decision trees, and clustering with analytical estimation accomplished using popular software.				
Prerequisites	One of Stat 3113, 3115, 3117, 5643 and one of Math 1212, 1215, 2222, or equivalents.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	Yes				
Justification for new course:	Required course for the Graduate Certificate in Business Analytics and Data Science				
Semesters previously offered as an experimental course	Sp 14				
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

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

Approval Path

1. 01/28/14 6:55 pm
siauk: Approved for RBUSADMN Chair
2. 01/29/14 8:06 am
kleb6b: Approved for CCC Secretary
3. 02/04/14 4:21 pm
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4040

Course Inventory Change Request

Date Submitted: 01/29/14 7:45 pm

Viewing: **IS&T 5680.TBD 480-: Advanced Web and New Media Studies**

File: 2031.1

Last edit: 01/29/14 7:45 pm

Changes proposed by: barryf

Requested	Fall 2014 16 Aug 10				
Effective Change Date					
Department	Business and Information Technology RINFSCTE				
Discipline	Info Science & Technology (IS&T)				
Course Number	5680 480				
Title	Advanced Web and New Media Studies				
Abbreviated Course Title	Advanced Web Studies				
Catalog Description	The course covers web culture, including topics such as social media; citizen journalism, crowd intelligence, privacy, and copyright. This course is an advanced version of Intro to Web Studies, with additional assignments.				
Prerequisites	Graduate standing. IS&T 4680 and IS&T 5680 cannot both be taken for credit.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	Adding exclusion of dual credit, per Tauritz memo of 9/11/2013.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

- 1. RBUSADMN Chair**
- 2. CCC Secretary**
- 3. Social Sciences DSCC Chair**
- 4. Pending CCC Agenda post**
- 5. CCC Meeting Agenda**
- Campus Curricula Committee Chair
- FS Meeting Agenda
- Faculty Senate Chair
- Registrar
- Peoplesoft

Approval Path

- 01/29/14 10:32 pm
siauk: Approved for RBUSADMN Chair
- 01/30/14 9:31 am
kleb6b: Approved for CCC Secretary
- 02/05/14 9:00 am
barryf: Approved for Social Sciences DSCC Chair
- 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 2031

Course Inventory Change Request

Date Submitted: 11/19/13 3:36 pm

Viewing: **MATH 12 : Business Calculus**

File: 946.1

Last edit: 02/06/14 6:54 pm

Changes proposed by: imorgan

Programs referencing this course	BIO SC-BS: Biological Sciences BS BUS&MS-BS: Business and Mgmt Systems BS ECON-BS: Economics BS IST-BS: Information Science and Technology BS PRE MBA-MI: Pre MBA Minor					<div>Chair</div> <div>4. Pending CCC Agenda post</div> <div>5. CCC Meeting Agenda</div> <div>6. Campus Curricula Committee Chair</div> <div>7. FS Meeting Agenda</div> <div>8. Faculty Senate Chair</div> <div>9. Registrar</div> <div>10. Peoplesoft</div>
Other Courses referencing this course	<div>In The Prerequisites:</div> BUS 360 : Business Operations					
Requested Effective Change Date	Fall 2014 3 Jan 05					
Department	Mathematics & Statistics					
Discipline	Mathematics (MATH)					<div>Approval Path</div> <div>1. 11/19/13 3:38 pm sclark: Approved for RMATHEMA Chair</div> <div>2. 01/09/14 9:19 am lahne: Approved for CCC Secretary</div> <div>3. 02/06/14 6:54 pm tauritzd: Approved for Sciences DSCC Chair</div> <div>4. 02/07/14 10:02 am kleb6b: Approved for Pending CCC Agenda post</div>
Course Number	12					
Title	Business Calculus					
Abbreviated Course Title	Business Calculus					
Catalog Description	Calculus for Bus. & Mgt. Sys, Econ & Finance, or Info. Sci. & Tech; also possibly Bio. Sci, Soc. Sci. or Humanities. Derivatives, optimization, exponential and logarithmic functions, integration, multivariate functions, partial derivatives, Lagrange multipliers, applications. May not be used as a prerequisite for either Math 15 or Math 21.					
Prerequisites	<div>A Math 4 with a grade of "C" or better in either Math 2 better, or 4; or by placement exam.</div>					
Field Trip Statement						
Credit Hours	LEC: 3	LAB: 1	IND: 0	RSD: 0	Total: 4	
Required for Majors	No					
Elective for Majors	No					
Justification for change:	Math 2 and 4 cover the same material.					
Semesters previously offered as an experimental course						

Co-Listed

Courses:

Course Reviewer

Comments

Key: 946

Course Inventory Change Request

Date Submitted: 11/19/13 3:42 pm

Viewing: **MATH 14 : Calculus For Engineers I**

File: 947.1

Last edit: 02/06/14 6:55 pm

Changes proposed by: imorgan

Catalog Pages referencing this course	Freshman Engineering Program	In Workflow
Programs referencing this course	AE ENG-BS: Aerospace Engineering BS ARC ENG-BS: Architectural Engineering BS BIO SC-BS: Biological Sciences BS CH ENG-BS: Chemical Engineering BS CMP SC-BS: Computer Science 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 PRE MBA-MI: Pre MBA Minor PRE-MED-MI: Pre-Medicine Minor	1. RMATHEMA Chair 2. CCC Secretary 3. Sciences DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Other Courses referencing this course	In The Catalog Description: AERO ENG 231 : Aerodynamics I ENG MGT 213 : Introduction to Complex System Management MATH 15 : Calculus For Engineers II MATH 8 : Calculus With Analytic Geometry I MECH ENG 161 : Introduction To Design MECH ENG 211 : Modeling and Analysis of Dynamic Systems MECH ENG 219 : Thermodynamics PHYSICS 21 : General Physics I In The Prerequisites: AERO ENG 213 : Aerospace Mechanics I AERO ENG 251 : Aerospace Structures I BUS 360 : Business Operations CIV ENG 1 : Fundamentals Of Surveying MATH 21 : Calculus With Analytic Geometry II MECH ENG 213 : Machine Dynamics NUC ENG 206 : Reactor Operations I	Approval Path 1. 11/19/13 3:45 pm sclark: Approved for RMATHEMA Chair 2. 01/09/14 9:18 am lahne: Approved for CCC Secretary 3. 02/06/14 6:55 pm tauritzd: Approved for Sciences DSCC Chair 4. 02/07/14 10:02 am kleb6b: Approved for Pending CCC Agenda post

Fall 2014 ~~18-Aug-08~~

Department Mathematics & Statistics

Requested					
Effective Change					
Date					
Discipline	Mathematics (MATH)				
Course Number	14				
Title	Calculus For Engineers I				
Abbreviated	Calc For Engrs I				
Course Title					
Catalog	Introduction to limits, continuity, differentiation and integration of algebraic and				
Description	elementary transcendental functions. Applications in physical science and engineering. Credit will be given for only one of Math 8 or Math 14. Math 14 may be accompanied by Math 6 with departmental advisor's approval.				
Prerequisites	A grade of "C" Math 6; Math 2 or better in 4, both Math 6 and one of Math 2 with a grade of "C"; or 4; better, or by placement exam.				
Field Trip					
Statement					
Credit Hours	LEC: 3	LAB: 1	IND: 0	RSD: 0	Total: 4
Required for	No				
Majors					
Elective for	No				
Majors					
Justification for change:	We would like to make sure students attempt Math 6 and 14 together only if they have a good chance of succeeding in both. We have developed a rubric to decide which students may attempt both courses, and it will be easier to manage this through the Math 14 coordinator and Mathematics Placement Advisor.				
	The prerequisite section has been edited for clarity.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

Key: 947

Course Inventory Change Request

Date Submitted: 10/08/13 10:37 am

Viewing: **MECH ENG 312 : Introduction to Finite Element Analysis**

File: 1032.1

Last edit: 01/27/14 8:50 am

Changes proposed by: nisbett

Programs referencing this course	MC ENG-BS: Mechanical Engineering BS MT ENG-BS: Metallurgical Engineering BS					<div>4. Pending CCC Agenda post</div> <div>5. CCC Meeting Agenda</div> <div>6. Campus Curricula Committee Chair</div> <div>7. FS Meeting Agenda</div> <div>8. Faculty Senate Chair</div> <div>9. Registrar</div> <div>10. Peoplesoft</div>
Other Courses referencing this course	<div>In The Catalog Description:</div> AERO ENG 352 : Introduction to Finite Element Analysis <div>In The Prerequisites:</div> AERO ENG 408 : Advanced Finite Element Analysis MECH ENG 408 : Advanced Finite Element Analysis					
Requested Effective Change Date	Fall 2014 15 Aug 11					
Department	Mechanical & Aerospace Engineering					
Discipline	Mechanical Engineering (MECH ENG)					<div>Approval Path</div> <div>1. 10/08/13 5:09 pm drallmei: Approved for RMECHENG Chair</div> <div>2. 01/09/14 10:00 am lahne: Approved for CCC Secretary</div> <div>3. 01/27/14 8:51 am sraper: Approved for Engineering DSCC Chair</div> <div>4. 02/07/14 10:02 am kleb6b: Approved for Pending CCC Agenda post</div>
Course Number	312					
Title	Introduction to Finite Element Analysis					
Abbreviated Course Title	Intro Finite Element Analysis					
Catalog Description	Variational formulation of the governing equations. Finite element model, interpolation functions, numerical integration, assembly of elements and solution procedures. Applications to solid mechanics, fluid mechanics and heat transfer problems. Two-dimensional problems. Computer implementation and use of commercial finite element codes.					
Prerequisites	Mech Eng 3708 208 or Aero Eng 4253, 253 or consent of instructor for majors that do not require either of these courses, or graduate standing. courses.					
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 are expected to have sufficient maturity to pick up necessary background material as needed, so don't need the consent of the instructor.					
Semesters previously offered as an experimental course						

Co-Listed	AERO ENG 352 - Introduction to Finite Element Analysis
Courses:	
Course Reviewer	
Comments	

Key: 1032

Course Inventory Change Request

Date Submitted: 08/27/13 9:21 am

Viewing: **MET ENG 321 : Metal Deformation Processes**

File: 1102.1

Last edit: 01/27/14 8:52 am

Changes proposed by: smiller

Requested **Fall 2014** ~~1-Jul-04~~

Effective Change

Date

Department Materials Science & Engineering

Discipline Metallurgical Engineering (MET ENG)

Course Number 321

Title Metal Deformation Processes

Abbreviated Metal Deformation Proces

Course Title

Catalog Description An introduction to metal deformation concepts followed by a study of various forming processes from both the analytical and applied viewpoints. Processes to include: forging, wire drawing, extrusion, rolling, sheet metal forming, and others.

Prerequisites Met Eng **3120 and Met Eng 3420 both with "C" or better** ~~221~~

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: Improve student success by ensuring they have the requisite foundational knowledge to build upon.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

Comments

In Workflow

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

Approval Path

1. 09/25/13 3:40 pm huebner: Approved for RMATSENG Chair
2. 01/09/14 9:17 am lahne: Approved for CCC Secretary
3. 01/27/14 8:52 am sraper: Approved for Engineering DSCC Chair
4. 02/07/14 10:02 am kleb6b: Approved for Pending CCC Agenda post

Key: 1102

Course Inventory Change Request

Date Submitted: 12/31/13 8:43 am

Viewing: **MIN ENG 221 : Mining Exploration**

File: 1161.1

Last edit: 01/27/14 8:55 am

Changes proposed by: cifarellit

Programs referencing this course	GE ENG-BS: Geological Engineering BS GEOL-MI: Geology Minor MI ENG-BS: Mining Engineering BS MI ENG-MI: Mining Engineering Minor					<div>4. Pending CCC Agenda post</div> <div>5. CCC Meeting Agenda</div> <div>6. Campus Curricula Committee Chair</div> <div>7. FS Meeting Agenda</div> <div>8. Faculty Senate Chair</div> <div>9. Registrar</div> <div>10. Peoplesoft</div>
Other Courses referencing this course	<div>In The Catalog Description:</div> MIN ENG 324 : Underground Mining Methods And Equipment					
Requested Effective Change Date	Summer 2014 16 Aug 10					
Department	Mining & Nuclear Engineering					
Discipline	Mining Engineering (MIN ENG)					<div>Approval Path</div> <div>1. 12/31/13 9:37 am frimpong: Approved for RMINNUCL Chair</div> <div>2. 01/09/14 9:38 am lahne: Approved for CCC Secretary</div> <div>3. 01/27/14 8:56 am sraper: Approved for Engineering DSCC Chair</div> <div>4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post</div>
Course Number	221					
Title	Mining Exploration					
Abbreviated Course Title	Mining Exploration					
Catalog Description	Classification of mineral deposits. Ore body Orebody definition. Geology, geophysics, geochemistry, geobotany, and drilling in mineral exploration. Sampling methods, errors and mitigation. Resources/Reserves classification. Proven, probable and possible resources/reserves. Reserve estimation project.					
Prerequisites	Geology 2611 Geology 125 and Min Eng 110.					
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:	Mining Eng 110 will no longer needs to be a prerequisite for Min 221. Mining 221 should be changed to a requirement for the major.					
Semesters previously offered as an experimental course						
Co-Listed Courses:						

Course Reviewer
Comments

Key: 1161

Course Inventory Change Request

Date Submitted: 12/31/13 8:48 am

Viewing: **MIN ENG 235 : Underground Mine Design**

File: 2270.1

Last edit: 01/09/14 9:39 am

Changes proposed by: cifarellit

Programs referencing this course	<u>MI ENG-BS: Mining Engineering BS</u>					4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Other Courses referencing this course	In The Prerequisites: <u>MIN ENG 324 : Underground Mining Methods And Equipment</u>					
Requested Effective Change Date	Summer 2014 2 Jan 12					Approval Path 1. 12/31/13 9:38 am frimpong: Approved for RMINNUCL Chair 2. 01/09/14 9:39 am lahne: Approved for CCC Secretary 3. 01/27/14 8:59 am srafer: Approved for Engineering DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Department	Mining & Nuclear Engineering					
Discipline	Mining Engineering (MIN ENG)					
Course Number	235					
Title	Underground Mine Design					
Abbreviated Course Title	Underground Mine Design					
Catalog Description	Underground mining methods. Parametric statistics and introductory geostatistics. Geomechanics, geometrics and computer-aided mine design. Empirical and numerical methods for mine openings, pillar and roof span design; caving and ore drawing mechanics. Materials scheduling and sequencing using commercially available software.					
Prerequisites	Min Eng 003 and Min Eng 225.					
Field Trip Statement	No field trips required					
Credit Hours	LEC: 1	LAB: 2	IND: 0	RSD: 0	Total: 3	
Required for Majors	Yes No					
Elective for Majors	No					
Justification for change:	Min Eng 225 and Min Eng 003 is required for understanding the materials covered in Mi Eng. 235					
Semesters previously offered as an experimental course						
Co-Listed Courses:						

Course Reviewer	Key: 2270
Comments	

Course Inventory Change Request

Date Submitted: 12/31/13 8:51 am

Viewing: **MIN ENG 392 : Mine Design Project I**

File: 2247.1

Last edit: 01/09/14 9:41 am

Changes proposed by: cifarellit

Programs referencing this course	<u>MI ENG-BS: Mining Engineering BS</u>					4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Other Courses referencing this course	In The Prerequisites: <u>MIN ENG 393 : Mine Design Project II</u>					
Requested Effective Change Date	Summer 2014 4 Jan 10					Approval Path 1. 12/31/13 9:39 am frimpong: Approved for RMINNUCL Chair 2. 01/09/14 9:41 am lahne: Approved for CCC Secretary 3. 01/27/14 9:00 am srafer: Approved for Engineering DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Department	Mining & Nuclear Engineering					
Discipline	Mining Engineering (MIN ENG)					
Course Number	392					
Title	Mine Design Project I					
Abbreviated Course Title	Mine Design Project I					
Catalog Description	Formation of mine design project teams and acquisition of project data from industry. Geostatistical methods for ore reserves estimation. Develop complete project schedule and milestones for executing the project tasks in Min Eng 393 (Mine Design Project II). Set up database for Min Eng 393 and interact with selected mine design software packages.					
Prerequisites	Min Eng 225 and Min Eng 235					
Field Trip Statement	No field trips required					
Credit Hours	LEC: 0	LAB: 1	IND: 0	RSD: 0	Total: 1	
Required for Majors	Yes No					
Elective for Majors	No					
Justification for change:	These pre-requisites are required for understanding the materials in this course.					
Semesters previously offered as an experimental course						
Co-Listed Courses:						

Course Reviewer	Key: 2247
Comments	

Course Inventory Change Request

Date Submitted: 12/31/13 8:53 am

Viewing: **MIN ENG 393 : Mine Design Project II**

File: 1182.1

Last edit: 01/09/14 9:41 am

Changes proposed by: cifarellit

Programs referencing this course	MI ENG-BS: Mining Engineering BS	In Workflow 1. RMINNUCL Chair 2. CCC Secretary 3. Engineering DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Other Courses referencing this course	In The Catalog Description: MIN ENG 392 : Mine Design Project I	
Requested Effective Change Date	Summer 2014 16-Aug-10	
Department	Mining & Nuclear Engineering	
Discipline	Mining Engineering (MIN ENG)	Approval Path 1. 12/31/13 9:47 am frimpong: Approved for RMINNUCL Chair 2. 01/09/14 9:41 am lahne: Approved for CCC Secretary 3. 01/27/14 9:01 am sraper: Approved for Engineering DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Course Number	393	
Title	Mine Design Project II	
Abbreviated Course Title	Mine Design Project II	
Catalog Description	Capstone project with written and oral presentations. Includes mine design and optimization, production plan, equipment and flowsheet design based on geology, resources/reserves, geotechnics, hydrology and hydro-geology. Project also incorporates markets, environmental and permitting, mine-mill organization, support facilities, economic and risk analyses.	
Prerequisites	Min Eng 324 , Min Eng 326 , Min Eng 392 and completion of 110 hours in the Mining Engineering Curriculum Curriculum.	
Field Trip Statement	No field trips required	
Credit Hours	LEC: 1 LAB: 3 IND: 0 RSD: 0 Total: 4	
Required for Majors	Yes-No	
Elective for Majors	No	
Justification for change:	The additional pre-requisites are necessary for undertaking this course.	
Semesters previously offered as an experimental course		

Co-Listed

Courses:

Course Reviewer

Comments

Key: 1182

Course Inventory Change Request

New Course Proposal					
Date Submitted: 01/29/14 9:49 am					
Viewing: MKT 5580.TBD : Advanced Marketing Strategy					
File: 4045					
Last edit: 01/29/14 9:49 am					
Changes proposed by: barryf					
Requested	Fall 2014				
Effective Change Date					
Department	Business and Information Technology				
Discipline	Marketing (MKT)				
Course Number	5580				
Title	Advanced Marketing Strategy				
Abbreviated Course Title	Adv. Marketing Strategy				
Catalog Description	Identification and analysis of strategic managerial marketing issues. Integration of marketing concepts through theoretical overview and practical analysis, including extensive use of simulation. Independent work on marketing project.				
Prerequisites	MKT 3110 or MKT 5105 or Eng Mgt 3510				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	Yes				
Justification for new course:	Correction of typo in original prerequisite list (should have been MKT 311 - now MKT 3110 - rather than MKT 310 - non-existent).				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

In Workflow

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

Approval Path

1. 01/29/14 4:47 pm
siau: Approved for RBUSADMN Chair
2. 01/30/14 9:31 am
kleb6b: Approved for CCC Secretary
3. 02/05/14 9:01 am
barryf: Approved for Social Sciences DSCC Chair
4. 02/07/14 10:03 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4045

Course Inventory Change Request

Date Submitted: 01/29/14 11:41 am

Viewing: **PHYSICS 306 : Physics, Energy, and the Environment**

File: 1899.1

Last edit: 02/06/14 6:46 pm

Changes proposed by: waddill

Requested **Fall 2014** ~~3-Jan-05~~
 Effective Change
 Date
 Department Physics
 Discipline Physics (PHYSICS)
 Course Number 306
 Title Physics, Energy, and the Environment
 Abbreviated Physics Energy Environ
 Course Title

Catalog Description Applications of physics to the environment, including energy, its conservation and transformation, environmental consequences of energy use; world energy resources; atmospheric physics; sources of air, water, and land pollution, and the role physics plays in controlling those resources. May not be used as a **3000- or 4000-level** ~~300-level~~ elective for a B.S. in Physics.

Prerequisites Admissions to the MST program.

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: Required to match course renumbering scheme.

Semesters
 previously
 offered as an
 experimental
 course

Co-Listed
 Courses:

Course Reviewer **tauritzd (02/06/14 6:46 pm)**: The statement "May not be used as a 3000- or 4000-level elective for a B.S. in Physics." in the catalog description is a degree program restriction and thus should be listed in the Physics BS degree program using a DC form, rather than here.

In Workflow

1. **RPHYSICS Chair**
 2. **CCC Secretary**
 3. **Sciences DSCC Chair**

4. **Pending CCC Agenda post**

5. **CCC Meeting Agenda**

6. Campus Curricula
 Committee Chair

7. FS Meeting
 Agenda

8. Faculty Senate
 Chair

9. Registrar

10. Peoplesoft

Approval Path

1. 01/29/14 11:45
 am
 waddill:

Approved for
 RPHYSICS Chair

2. 01/29/14 11:51
 am
 kleb6b: Approved
 for CCC Secretary

3. 02/06/14 6:47 pm
 tauritzd:
 Approved for
 Sciences DSCC
 Chair

4. 02/07/14 10:03
 am
 kleb6b: Approved
 for Pending CCC
 Agenda post

Key: 1899

Course Inventory Change Request

Date Submitted: 01/29/14 11:42 am

Viewing: **PHYSICS 324 : Fourier Optics**

File: 1342.1

Last edit: 01/29/14 11:52 am

Changes proposed by: waddill

Other Courses referencing this course	In The Catalog Description: <u>ELEC ENG 324 : Fourier Optics</u>					4. Pending CCC Agenda post 5. CCC Meeting Agenda
Requested Effective Change Date	Fall 2014 21 Aug 95					6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Department	Physics					Approval Path 1. 01/29/14 11:45 am waddill: Approved for RPHYSICS Chair 2. 01/29/14 11:52 am kleb6b: Approved for CCC Secretary 3. 02/06/14 6:47 pm tauritzd: Approved for Sciences DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Discipline	Physics (PHYSICS)					
Course Number	324					
Title	Fourier Optics					
Abbreviated Course Title	Fourier Optics					
Catalog Description	Applications of Fourier analysis and linear system theory to optics. Topics include scalar diffraction theory, Fourier transforming Fouriertransforming properties of lenses, optical information processing, and imaging systems.					
Prerequisites	Elec Eng 217 261 & 271 275 or Physics 208 & 321.					
Field Trip Statement						
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3	
Required for Majors	No					
Elective for Majors	No					
Justification for change:	Update prerequisites to match those required by Elec Eng.					
Semesters previously offered as an experimental course						
Co-Listed Courses:	ELEC ENG 324 - Fourier Optics					
Course Reviewer Comments						

Key: 1342

Course Inventory Change Request

Date Submitted: 01/29/14 11:43 am

Viewing: **PHYSICS 326 : Fiber And Integrated Optics**

File: 1343.1

Last edit: 01/29/14 11:53 am

Changes proposed by: waddill

Other Courses referencing this course	In The Catalog Description: <u>ELEC ENG 326 : Fiber And Integrated Optics</u>	In Workflow 1. RPHYSICS Chair 2. CCC Secretary 3. Sciences DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda
Requested Effective Change Date	Fall 2014 21 Aug 95	6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Department	Physics	Approval Path 1. 01/29/14 11:45 am waddill: Approved for RPHYSICS Chair 2. 01/29/14 11:53 am kleb6b: Approved for CCC Secretary 3. 02/06/14 6:47 pm tauritzd: Approved for Sciences DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Discipline	Physics (PHYSICS)	
Course Number	326	
Title	Fiber And Integrated Optics	
Abbreviated Course Title	Fiber/Integrated Optics	
Catalog Description	Introduction to optical waveguides and their applications to communication and sensing. Topics include dielectric waveguide theory, optical fiber characteristics, integrated optic circuits, coupled-mode theory, optical communication systems, and photonic sensors.	
Prerequisites	Elec Eng 271 275 or Physics 321.	
Field Trip Statement		
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3	
Required for Majors	No	
Elective for Majors	No	
Justification for change:	Update prerequisites to match those required by Elec Eng.	
Semesters previously offered as an experimental course		
Co-Listed Courses:	ELEC ENG 326 - Fiber And Integrated Optics	
Course Reviewer Comments		

Key: 1343

Course Inventory Change Request

Date Submitted: 08/28/13 2:00 pm

Viewing: **PHYSICS 409 : Classical Mechanics I**

File: 1346.1

Last edit: 02/06/14 6:52 pm

Changes proposed by: waddill

Requested **Fall 2014** ~~19 Aug 85~~

Effective Change

Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 409

Title Classical Mechanics I

Abbreviated Classical Mechanics I

Course Title

Catalog Description Methods of Newton, Lagrange, and Hamilton applied to the motion of particles and rigid bodies. Introduction to canonical transformations and Poisson brackets. Classical scattering and small oscillations.

Prerequisites Math **204 and 204**, Physics **308**. ~~309~~

Field Trip Statement

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

Required for Majors No

Elective for Majors No

Justification for change: The original prerequisite was listed as Math 204 and Physics 309. We no longer offer Physics 309 (have not offered it for over 20 years) so we need to replace that prerequisite with Physics 308.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

Comments

In Workflow

1. RPHYSICS Chair

2. CCC Secretary

3. Sciences DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

Approval Path

1. 08/28/13 2:01 pm waddill:

Approved for RPHYSICS Chair

2. 01/09/14 9:28 am lahne: Approved for CCC Secretary

3. 02/06/14 6:52 pm tauritzd: Approved for Sciences DSCC Chair

4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post

Key: 1346

Course Inventory Change Request

Date Submitted: 01/29/14 11:44 am

Viewing: **PHYSICS 411 : Electrodynamics I**

File: 1353.1

Last edit: 01/29/14 11:44 am

Changes proposed by: waddill

Other Courses referencing this course In The Catalog Description: PHYSICS 423 : Electrodynamics II In The Prerequisites: NUC ENG 425 : Plasma Physics PHYSICS 423 : Electrodynamics II		In Workflow 1. RPHYSICS Chair 2. CCC Secretary 3. Sciences DSCC Chair 4. Pending CCC Agenda post 5. CCC Meeting Agenda 6. Campus Curricula Committee Chair 7. FS Meeting Agenda 8. Faculty Senate Chair 9. Registrar 10. Peoplesoft
Requested Effective Change Date Department Discipline Course Number Title Abbreviated Course Title	Fall 2014 1 Jan 00 Physics Physics (PHYSICS) 411 Electrodynamics I Electrodynamics I	Approval Path 1. 01/29/14 11:45 am waddill: Approved for RPHYSICS Chair 2. 01/29/14 11:55 am kleb6b: Approved for CCC Secretary 3. 02/06/14 6:47 pm tauritzd: Approved for Sciences DSCC Chair 4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post
Catalog Description Prerequisites Field Trip Statement Credit Hours Required for Majors Elective for Majors	A rigorous development of the fundamentals of electromagnetic fields and waves. Electrostatics, magnetostatics, Maxwell's equations--Green's function, boundary value problems, multipoles, conservation laws. Physics 321. Elec Eng 273 and Math 325; Physics 321. LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3 No No	
Justification for change: Semesters previously offered as an experimental course Co-Listed Courses:	Update prerequisites due to course renumbering.	
Course Reviewer Comments		

Key: 1353

Course Inventory Change Request

Date Submitted: 01/09/14 8:47 am

Viewing: **PHYSICS 451 : Advanced Computational Physics**

File: 2245.1

Last edit: 01/09/14 8:47 am

Changes proposed by: lahne

Requested **Fall 2014** ~~4 Jan 10~~

Effective Change

Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 451

Title Advanced Computational Physics

Abbreviated Adv Computational Physics

Course Title

Catalog Description An introduction to modern computer simulations for solving physics problems. The course will be project-oriented with examples including planetary motion, chaotic dynamics, quantum scattering, structure of atoms and clusters, molecular dynamics, and Monte-Carlo simulations. Graduate students will be required to do extra work upon consultation with their **advi** ~~adviser~~.

Prerequisites Graduate Standing.

Field Trip Statement

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

Required for Majors No

Elective for Majors No

Justification for change: DELETE course. Previously course was taught with an undergrad and graduate option. With the new numbering system, the department has combined them, eliminating 451.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

Comments

In Workflow

1. RPHYSICS Chair

2. CCC Secretary

3. Sciences DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

Approval Path

1. 01/09/14 8:49 am waddill:

Approved for RPHYSICS Chair

2. 01/09/14 8:50 am lahne: Approved for CCC Secretary

3. 02/06/14 6:52 pm tauritzd: Approved for Sciences DSCC Chair

4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post

Course Inventory Change Request

Date Submitted: 01/09/14 8:47 am

Viewing: **PHYSICS 456 : Advanced Chaos, Fractals, and Nonlinear Dynamics**

File: 2345.1

Last edit: 01/09/14 8:47 am

Changes proposed by: lahne

Requested **Fall 2014** ~~15-Aug-11~~

Effective Change

Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 456

Title Advanced Chaos, Fractals, and Nonlinear Dynamics

Abbreviated Advanced Chaos

Course Title

Catalog Description An introduction into nonlinear dynamics, deterministic chaos, and fractals. Topics include phase plane analysis, routes to chaos, and pattern formation with applications in physics, chemistry and biology. Graduate students will be required to do extra work upon consultation with their advisor.

Prerequisites Math 204; Physics 24 or Physics 25; Graduate standing.

Field Trip Statement

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

Required for Majors No

Elective for Majors No

Justification for change: DELETE course. Previously course was taught with an undergrad and graduate option. With the new numbering system, the department has combined them, eliminating 456.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

Comments

In Workflow

1. RPHYSICS Chair

2. CCC Secretary

3. Sciences DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

Approval Path

1. 01/09/14 8:49 am waddill:

Approved for RPHYSICS Chair

2. 01/09/14 8:50 am lahne: Approved for CCC Secretary

3. 02/06/14 6:52 pm tauritzd: Approved for Sciences DSCC Chair

4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post

Key: 2345

Course Inventory Change Request

Date Submitted: 01/09/14 8:46 am

Viewing: **PHYSICS 457 : Advanced Subatomic Physics**

File: 2246.1

Last edit: 01/09/14 8:46 am

Changes proposed by: lahne

Requested **Fall 2014 ~~16 Aug 10~~**

Effective Change

Date

Department Physics

Discipline Physics (PHYSICS)

Course Number 457

Title Advanced Subatomic Physics

Abbreviated Advanced Subatomic Physics

Course Title

Catalog Description An introduction to elementary particles. Topics include particle properties, nuclear forces, particle interactions, the Standard Model for quarks and leptons, fundamental forces in gauge field theory models, and the role of elementary particle interactions in cosmology. Graduate Students will be required to do extra work upon consultation with their advisor.

Prerequisites Physics 307.

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: DELETE course. Previously course was taught with an undergrad and graduate option. With the new numbering system, the department has combined them, eliminating 457.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer

Comments

In Workflow

1. RPHYSICS Chair

2. CCC Secretary

3. Sciences DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

Approval Path

1. 01/09/14 8:49 am waddill:

Approved for RPHYSICS Chair

2. 01/09/14 8:49 am lahne: Approved for CCC Secretary

3. 02/06/14 6:52 pm tauritzd: Approved for Sciences DSCC Chair

4. 02/07/14 10:03 am kleb6b: Approved for Pending CCC Agenda post

Course Inventory Change Request

Date Submitted: 01/28/14 1:21 pm

Viewing: **POL SCI 4085.TBD 302: Political Science Internship**

File: 1374.1

Last edit: 01/28/14 5:28 pm

Changes proposed by: lgragg

Requested **Fall 2014 ~~23-Aug-93~~**
 Effective Change
 Date
 Department History and Political Science
 Discipline Political Science (POL SCI)
 Course Number **4085-302**
 Title Political Science Internship
 Abbreviated
 Course Title Political Sci Internship

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 Pol Sci 90 or Pol Sci **50. ~~235~~**

Field Trip
Statement

Credit Hours LEC: 0 LAB: 0 IND: 0 RSD: 0 Total: 0-6

Required for
Majors No

Elective for
Majors No

Justification for
change: Delete Pol Sci 235 which was inactivated; replace it with Pol Sci 50

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

In Workflow

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

Approval Path

1. 01/28/14 1:25 pm
lgragg: Approved for RHISTORY Chair
2. 01/28/14 2:41 pm
kleb6b: Approved for CCC Secretary
3. 01/28/14 5:29 pm
ivliyeva: Approved for Arts & Humanities DSCC Chair
4. 02/07/14 10:03 am
kleb6b: Approved for Pending CCC Agenda post

Course Reviewer

Comments

Key: 1374

Course Inventory Change Request

Date Submitted: 11/19/13 3:47 pm

Viewing: **STAT 446 : Advanced ~~Intermediate~~ Probability Theory**

File: 1452.1

Last edit: 11/19/13 3:47 pm

Changes proposed by: imorgan

Requested	Fall 2014 13 Jun 89				
Effective Change Date					
Department	Mathematics & Statistics				
Discipline	Statistics (STAT)				
Course Number	446				
Title	Advanced Intermediate Probability Theory				
Abbreviated	Advanced Prob. Theory				
Course Title	Intermediate Probability				
Catalog Description	Probability spaces, random variables, distribution functions, expectations, independence, convergence theorems, characteristic functions, moment generating functions, and central limit theorem.				
Prerequisites	Stat 344 and Math 315.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	No				
Elective for Majors	No				
Justification for change:	The name "Intermediate Probability" doesn't effectively convey the level of the material being covered in this course. With the new name "Advanced Probability Theory" it is clear that the course provides a PhD level, measure-theoretic treatment of probability.				
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer					
Comments					

In Workflow

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

Approval Path

1. 11/19/13 4:13 pm
sclark: Approved for RMATHEMA Chair
2. 01/09/14 9:09 am
lahne: Approved for CCC Secretary
3. 02/06/14 6:52 pm
tauritzd:
Approved for Sciences DSCC Chair
4. 02/07/14 10:03 am
kleb6b: Approved for Pending CCC Agenda post

Key: 1452

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 01/24/14 11:52 am

Viewing: **COMP SCI 1001.TBD : Introduction to MATLAB Programming**

File: 4034

Last edit: 01/24/14 11:52 am

Changes proposed by: tauritzd

Requested	Fall 2014
Effective Change Date	
Department	Computer Science
Discipline	Computer Science (COMP SCI)
Course Number	1001
Topic ID	TBD
Title	Introduction to MATLAB Programming
Abbreviated Course Title	MATLAB Programming
Instructors	Dave Mentis

Catalog Description	Programming design and development using MATLAB for non-CS majors. Strong emphasis placed on algorithmic problem solving methods using good programming practices. Introduction to built-in functions including plotting, as well as logical/relational/arithmetic operators, decision branching, loops, functions, file I/O, datastructures, and output formatting.				
Prerequisites	Accompanied by Comp Sci 1001 - MATLAB Programming Laboratory				
Field Trip Statement					
Credit Hours	LEC: 2	LAB: 0	IND: 0	RSD: 0	Total: 2

Justification for new course: Requested by students, faculty, and departments

Semester(s) previously taught

Co-Listed Courses:

Course Reviewer
Comments

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. Registrar
8. Peoplesoft

Approval Path

1. 01/24/14 1:50 pm
sdas: Approved for RCOMPSCI Chair
2. 01/27/14 8:49 am
kleb6b: Approved for CCC Secretary
3. 02/06/14 6:50 pm
tauritzd: Approved for Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4034

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 01/24/14 11:53 am

Viewing: **COMP SCI 1001.TBD : MATLAB Programming Laboratory**

File: 4037

Last edit: 01/24/14 11:53 am

Changes proposed by: tauritzd

Requested Fall 2014

Effective Change
Date

Department Computer Science

Discipline Computer Science (COMP SCI)

Course Number 1001

Topic ID TBD

Title MATLAB Programming Laboratory

Abbreviated
Course Title MATLAB Programming Lab

Instructors Dave Mentis

Catalog
Description Practical application of concepts learned in Comp Sci 1001 - Introduction to MATLAB Programming course. Hands-on instruction in MATLAB developing, debugging and testing programming projects.

Prerequisites Accompanied by Comp Sci 1001 - Introduction to MATLAB Programming.

Field Trip
Statement

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

Justification for
new course: Requested by students, faculty, and departments.Semester(s)
previously taught NoneCo-Listed
Courses:

Course Reviewer

Comments

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. Registrar
8. Peoplesoft

Approval Path

1. 01/24/14 1:50 pm
sdas: Approved for RCOMPSCI Chair
2. 01/27/14 8:49 am
kleb6b: Approved for CCC Secretary
3. 02/06/14 6:51 pm
tauritzd: Approved for Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4037

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 01/24/14 4:38 pm

Viewing: **COMP SCI 5001.TBD : Experiential Entrepreneurship for Computer Scientists**

File: 4036

Last edit: 01/24/14 4:38 pm

Changes proposed by: tauritzd

Requested	Fall 2014
Effective Change Date	
Department	Computer Science
Discipline	Computer Science (COMP SCI)
Course Number	5001
Topic ID	TBD
Title	Experiential Entrepreneurship for Computer Scientists
Abbreviated Course Title	CompSci Entrepreneurship
Instructors	Staff
Catalog Description	Students will work in teams mentored by experienced entrepreneurs to generate innovative ideas and transform them into business models for economically viable knowledge tech companies. Experiential learning will be used in live customer discovery, prototyping and market validation. The prototyping phase will contain a significant computer science component.
Prerequisites	Comp Sci 1510
Field Trip Statement	
Credit Hours	LEC: 3 LAB: 0 IND: 0 RSD: 0 Total: 3

Justification for new course: Department request

Semester(s) previously taught: None

Co-Listed Courses:

Course Reviewer Comments

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. Registrar
8. Peoplesoft

Approval Path

1. 01/24/14 5:04 pm
sdas: Approved for RCOMPSCI Chair
2. 01/27/14 8:50 am
kleb6b: Approved for CCC Secretary
3. 02/06/14 6:51 pm
tauritzd: Approved for Sciences DSCC Chair
4. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4036

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 12/20/13 9:57 am

Viewing: **ELEC ENG EE 5001.TBD : State Variable Control Design and Applications**

File: 4030

Last edit: 01/27/14 3:26 pm

Changes proposed by: martins

Requested	Fall 2014
Effective Change Date	
Department	Electrical and Computer Engineering
Discipline	Electrical Engineering (ELEC ENG)
Course Number	EE 5001
Topic ID	TBD
Title	State Variable Control Design and Applications
Abbreviated Course Title	State Variable Control
Instructors	Dr. Jagannathan Sarangapani
Catalog Description	State variable models, state variable control, controllability, observability, stability, observers, optimal control design, robust control, industrial applications. Laboratory portion will include Matlab and possibly hardware experiments
Prerequisites	Elec Eng 231 or graduate student standing
Field Trip Statement	
Credit Hours	LEC: 2 LAB: 1 IND: 0 RSD: 0 Total: 3
Justification for new course:	Department to test a new course.
Semester(s) previously taught	None
Co-Listed Courses:	
Course Reviewer Comments	sraper (01/27/14 11:29 am): Rollback: What level is this to be? 4000, 5000?

In Workflow

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

Approval Path

1. 12/31/13 1:38 pm
kte: Approved for RELECENG Chair
2. 01/09/14 9:02 am
lahne: Approved for CCC Secretary
3. 01/27/14 11:29 am
sraper: Rollback to RELECENG Chair for Engineering DSCC Chair
4. 01/27/14 1:34 pm
kte: Approved for RELECENG Chair
5. 01/27/14 3:28 pm
kleb6b: Approved for CCC Secretary
6. 01/31/14 11:46 am
sraper: Approved for Engineering DSCC Chair
7. 02/07/14 10:01 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4030

Course Inventory Change Request

New Experimental Course Proposal

Date Submitted: 01/17/14 11:29 am

Viewing: **FRENCH 301.TBD : Paris**

File: 4033

Last edit: 01/17/14 11:29 am

Changes proposed by: audram

Requested	Summer 2014
Effective Change Date	
Department	Arts, Languages, & Philosophy
Discipline	French (FRENCH)
Course Number	301
Topic ID	TBD
Title	Paris
Abbreviated Course Title	Paris
Instructors	Audra Merfeld-Langston

Catalog Description	An examination of the cultural, artistic, literary, and social life of the city of Paris. This course begins with the Gallo-Roman period and continues on to the Paris of today. Emphasis placed on exploring the continuities as well as the changes in the city's history. Taught in English.				
Prerequisites	English 20.				
Field Trip Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3

Justification for new course:	Expand French course offerings; increase interest in French program by offering upper-level humanities course in English. Possibly expand this particular course in the future as a study abroad program.				
Semester(s) previously taught	None				
Co-Listed Courses:					

Course Reviewer
Comments

In Workflow

1. RPHILOSO Chair
2. CCC Secretary
3. Arts & Humanities DSCC Chair
4. Pending CCC Agenda post
5. CCC Meeting Agenda
6. Campus Curricula Committee Chair
7. Registrar
8. Peoplesoft

Approval Path

1. 01/17/14 11:39 am
ance: Approved for RPHILOSO Chair
2. 01/27/14 8:52 am
kleb6b: Approved for CCC Secretary
3. 01/28/14 1:34 pm
ivliyeva: Approved for Arts & Humanities DSCC Chair
4. 02/07/14 10:02 am
kleb6b: Approved for Pending CCC Agenda post

Key: 4033