

Missouri University of Science and Technology

Formerly University of Missouri-Rolla

Campus Curricula Committee Meeting Agenda January 13, 2015 2:30-4:00 p.m., Room 110H Bertelsmeyer Hall

CourseLeaf Approval of Co-Listed Courses

Review of submitted Degree Change forms:

File #148.11	Business & Management Systems: Business & Management Systems BS
File #44.13	Engineering Management: Engineering Management BS
File #58.11	Finance: Finance Minor
File #75.7	Information Science & Technology: Information Science & Technology BS
File #238	Proposed: Human-Computer Interaction and User Experience Minor
File #239	Proposed: Business Analytics and Data Science Minor

Review of submitted Course Change forms:

File #4170	Chemical Engineering 6010: Graduate Seminar
File #2235.1	Economics 2114: Managerial Economics
File #4166	Economics 3000: Special Problems
File #4144	Economics 4010: Seminar
File #2107.1	Economics 4641: Foundations of Sustainability
File #2187.1	Economics 4642: Introduction to Global Eco- and Social-preneurship and Innovation
File #968.4	Economics 4643: Ethical Problems in a Global Environment
File #4163	Economics 5010: Seminar
File #4165	Economics 6000: Special Problems
File #4164	Economics 6010: Seminar
File #4160	Economics 6641: Advanced Foundations of Sustainability
File #4048.7	Economics 6643: Advanced Ethical Problems in a Global Environment
File #92.1	Engineering Management 1210: Economic Analysis of Engineering Projects
File #1393.1	Engineering Management 2310: Introduction to System Engineering
File #2379.1	Engineering Management 3310: Operations and Production Management
File #827.1	Engineering Management 3320: Introduction to Project Management
File #496.1	Engineering Management 3510: Marketing Management
File #2431.1	Engineering Management 4110: General Management-Design and Intergration
File #2430.1	Engineering Management 4310: Materials Handling and Plant Layout
File #164.1	Engineering Management 4907: Engineering Management Senior Design
File #393.1	Engineering Management 5412: Operations Management Science
File #651.1	Engineering Management 5510: Industrial Marketing Systems Analysis
File #870.1	Engineering Management 5512: Legal Environment

Office of the Registrar • 103 Parker Hall • 300 West 13th Street • Rolla, MO 65409-0930

Phone: 573-341-4181 • Fax: 573-341-4362 • Email: registrar@mst.edu • Web: http://registrar.mst.edu



Missouri University of Science and Technology

Formerly University of Missouri-Rolla

File #2070.1	Engineering Management 5610: Advanced Facilities Planning & Design
File #4120	Geological Engineering 5332: Fundamentals of Groundwater Hydrology
File #4119	Geological Engineering 5415: Soil Mechanics for Geoprofessionals
File #4121	Geological Engineering 6400: Practice Oriented Project
File #745.1	Geophysics 3210: Introduction to Geophysics
File #768.1	Geophysics 5251: Exploration and Development Seismology
File #745.1	Geophysics 5261: Computational Geophysics
File #2205.1	Geophysics 5736: Geophysical Field Methods
File #1330.1	Geophysics 5761: Transportation Applications of Geophysics
File #2225.1	Information Science & Technology 3333: Data Networks and Information Security
File #4156	Information Science & Technology 3420: Introduction to Data Science and Management
File #4157	Information Science & Technology 4450: Introduction to Information Visualization
File #4040.8	Information Science & Technology 5420: Business Analytics and Data Science
File #124.3	Information Science & Technology 5886: Prototyping Human-Computer Interactions
File #75.1	Information Science & Technology 6336: Foundations of Internet Computing
File #4132	Information Science & Technology 6450: Information Visualization
File #4147	Nuclear Engineering 4350: Introduction to Nuclear Medical Science
File #4148	Nuclear Engineering 5350: Advanced Nuclear Medical Science

Review of submitted Experimental Course forms:

File #4162	Aerospace Engineering 2001.TBD: Introduction to Spacecraft Design
File #4158	Chemical Engineering 4001.TBD: Bioprocess Safety
File #4092	Political Science 3001.TBD: Politics of the Middle East
File #4169	Russian 5001.TBD: Advanced Scientific Russian

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Program Change Request

Date Submitted: 12/17/14 10:52 am

Viewing: BUS&MS-BS: Business and Mgmt Systems BS

File: 148.11

Last approved: 08/05/14 2:58 pm

Last edit: 12/19/14 2:52 pm

Changes proposed by: barryf

Business and Management Systems

Catalog Pages Using this Program

Start Term Fall 2015 8/1/2014

Program Code BUS&MS-BS

Department Business and Information Technology

Title Business and Mgmt Systems BS

Program Requirements and Description

Bachelor of Science Business and Management Systems

In Business and Management Systems, the Bachelor of Science degree consists of 120 credit hours. First, all undergraduate students in Business and Management Systems are required to complete a prescribed General Education Requirements Core that corresponds to the recommendations of the Missouri State Coordinating Board for Higher Education and consists of 54 credit hours in the areas of Natural Systems, Human Institutions, Quantitative Skills, and Communication Skills. In addition, all undergraduate students are required to complete a 27 credit hour core consisting of courses in Information Technology, Management, and Entrepreneurship. A minimum grade of "C" is required for courses in these areas. Finally, the degree includes 12 credit hours of free electives.

The remaining 27 credit hours of the required 120 credit hours for the Business and Management Systems degree are divided into a prescribed 18 credit hour degree core and 9 credit hours of degree specific electives. A minimum grade of "C" is required in these courses. The electives for this degree are then chosen from business-related upper-level courses.

In Workflow

- 1. RINFSCTE Chair
- 2. CCC Secretary
- 3. Social Sciences
 DSCC Chair
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate Chair
- 9. Registrar
- 10. josephj
- 11. juliep
- 12. pantaleoa

Approval Path

- 1. 12/17/14 10:58 am siauk: Approved for RINFSCTE Chair
- 12/17/14 11:00 am kleb6b: Approved for CCC Secretary
- 12/17/14 9:09 pm barryf: Approved for Social Sciences
 DSCC Chair
- 4. 12/19/14 8:05 am kleb6b: Approved for Pending CCC Agenda post
- 5. 12/19/14 2:51 pm kleb6b: Rollback to Pending CCC Agenda post for CCC Meeting Agenda

History

 Aug 5, 2014 by barryf

Freshman Year			
First Semester	Credits	Second Semester	Credits
PSYCH 1101	3	MATH 1140	3
BUS 1810 ¹	1	IS&T 1750	3
BUS 1110	3	IS&T 1750	3
ENGLISH 1120	3	ENGLISH 1600 or TCH COM 1600	3
Science Elective ³	3	ECON 1200	3
Laboratory w/ Science Elective ³	1	Science Elective ³	3

1 of 4 12/22/2014 1:15 PM

	14		15
Sophomore Year			
First Semester	Credits	Second Semester	Credits
BUS 1210	3	History Elective	3
MATH 1212	4	FINANCE 2150	3
IS&T 1551	3	IS&T 1552	3
IS&T 1551	3	<u>IS&T 1552</u>	3
ECON 1100	3	ERP 2110	3
SP&M S 1185	3	POL SCI 1200	3
SP&M S 1185	3		
	16		15
Junior Year			
First Semester	Credits	Second Semester	Credits
Business Elective	3	ECON 2300	3
Speech or Tech Com Elective	3	BUS 5580	3
MKT 3110	3	ENGLISH 2560 or TCH COM 2560	3
IS&T 4654	3	Business Elective	3
STAT 3111	3	Free Elective	3
BUS 3220	3		
	15		15
Senior Year			
First Semester	Credits	Second Semester	Credits
Free Elective	3	Business Elective	3
BUS 2910	3	BUS 5980 ¹	3
BUS-3360	3	BUS 4675	3
Fine Art, Social Science, or Humanities Electives ²	3	Fine Art, Social Science, or Humanities Elective ²	3
BUS 5360	3	Free Electives	3
Business Elective	3		
	15		15
Total Credits: 120			

A grade of "C" or better is required in the following courses for graduation: <u>IS&T 1552</u>, <u>ERP 2110</u>, <u>BUS 1110</u>, <u>BUS 1210</u>, <u>ECON 1100</u>, <u>ECON 1200</u>, <u>MKT 3110</u>, <u>FINANCE 2150</u>, <u>BUS 3360</u>, <u>IS&T 4654</u>, <u>BUS 3220</u>, <u>BUS 5580</u>, and <u>ECON 2300</u>.

- Writing Intensive Course
- Any course in the following areas not used for other degree requirements: Art, Economics, English, Foreign Language, History, Literature, Music, Philosophy, Political Science, Psychology, Sociology, Theater.
- Any course in the following areas: Biology, Chemistry, Geology, Geological Engineering, Physics.

Areas of Concentration

All students are required to complete twelve credit hours chosen from 2000, 3000, 4000, or 5000-level courses in business, economics, finance, enterprise resource planning, or information science & technology. A "C" or better grade is required in all twelve credit hours. If the student chooses to designate an area of concentration for these courses, focusing at least 3 courses (9 credits) in one area, he or she may do so. Students are not required to choose a concentration area. Areas of concentration are:

E-Commerce

IS&T 5652	Advanced Web Development	3
IS&T 4641	Electronic and Mobile Commerce	3

2 of 4 12/22/2014 1:15 PM

IS&T 4654	Web and Digital Media Development	3
IS&T 4642	E-Commerce Architecture	3
IS&T 4257	Network Economy	3
IS&T 5168	Law and Ethics in E-Commerce	3
IS&T 5652	Advanced Web Development	3
IS&T 4641	Electronic and Mobile Commerce	3
IS&T 4642	E-Commerce Architecture	3
IS&T 4257	Network Economy	3
IS&T 5168	Law and Ethics in E-Commerce	3

Enterprise Resource Planning

Any 9 hours of ERP-designated courses at the 4000-level or above.

Finance

FINANCE 5160	Corporate Finance II	3
FINANCE 5260	Investments I	3
ECON 4720	International Finance	3
Any other Finance course at the 3000-level or above.		

 $\underline{\text{ECON } 4410}$, and $\underline{\text{ECON } 5337}$ cannot be used toward this concentration.

Human-Computer Interaction

IS&T 5654	Course IS&T 5654 Not Found	3
IS&T 5885	Human-Computer Interaction	3
IS&T 5886	Prototyping Human-Computer Interactions	3
IS&T 5887	Human-Computer Interaction Evaluation	3
<u>IS&T 5652</u>	Advanced Web Development	3
<u>IS&T 5885</u>	Human-Computer Interaction	3
IS&T 5886	Prototyping Human-Computer Interactions	3
IS&T 5887	Human-Computer Interaction Evaluation	3

Management

BUS 3111	Course BUS 3111 Not Found	3
BUS 3115	Introduction to Teambuilding and Leadership	3
BUS 5470	Human Resource Management	3
IS&T 5251	Technological Innovation Management and Leadership	3
BUS 4111	Business Negotiations	3
IS&T 5251	Technological Innovation Management and Leadership	3

Marketing

MKT 3210	Consumer Behavior	3
MKT 5310	Digital Marketing and Promotions	3
MKT 4150	Customer Focus and Satisfaction	3
MKT 4580	Marketing Strategy	3
ERP 4610	Customer Relationship Management in ERP Environment	3

Justification for Replacing Speech and Tech Comm Elective with IS&T 4654-Web and New Media

3 of 4 12/22/2014 1:15 PM

request Design and Development. Also correcting some "course not found" issues as numbers

have changed.

Supporting Documents

Course Reviewer kleb6b (12/17/14 10:59 am): Change start term

Comments kleb6b (12/19/14 2:51 pm): Rollback: Fix "undefined" references

kleb6b (12/19/14 2:52 pm): Fix "undefined" references

Key: 148

Program Change Request

Date Submitted: 11/18/14 1:18 pm

Viewing: ENG MG-BS: Engineering Management BS

File: 44.13

Last approved: 11/18/14 9:10 am

Last edit: 11/18/14 1:18 pm

Changes proposed by: sraper

Engineering Management

Catalog Pages
Using this
Program

Start Term Fall 2015 8/1/2014

Program Code ENG MG-BS

Department Engineering Management and Systems Engineering

Title Engineering Management BS

Program Requirements and Description

Bachelor of Science Engineering Management

Entering freshmen intending to study Engineering Management are admitted to the Freshman Engineering Program. They may, however, state an Engineering Management 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.

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

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

In Workflow

- 1. RENGMNGT Chair
- 2. CCC Secretary
- 3. Engineering DSCC Chair
- 4. Pending CCC Agenda post
- CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate Chair
- 9. Registrar
- 10. josephj
- 11. juliep
- 12. pantaleoa

Approval Path

- 1. 11/18/14 5:55 pm enke: Approved for RENGMNGT Chair
- 2. 11/19/14 9:01 am kleb6b: Approved for CCC Secretary
- 3. 12/05/14 9:14 am sraper: Approved for Engineering DSCC Chair

History

- 1. Sep 24, 2013 by lahne
- 2. Apr 28, 2014 by sraper
- 3. Jun 12, 2014 by pantaleoa
- Nov 18, 2014 by kleb6b
- 1. All students are required to take one American history course, one economics course, one humanities course, and undefined. The history course is to be selected from undefined, undefined, or undefined. The economics course may be either undefined or undefined. The economics humanities course may be either undefined or undefined. All students must choose one additional humanities or social science course be selected from "The Approved List of Humanities and Social Sciences Courses for Engineering Degrees" maintained by the Office of Undergraduate Studies.
- 2. Depth requirement. Three credit hours must be taken in humanities or social sciences at the 2000-level or above and must be selected from the approved list. This course must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 1180 will be considered to satisfy this requirement. Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 4000-level or above. All courses taken to satisfy the depth requirement must be taken after graduating from high school.
- 3. The remaining two courses are to be chosen from the list of approved humanities/social sciences courses and may include one communications course in addition to undefined.
- 4. Any specific departmental requirements in the general studies area must be satisfied.
- 5. Special topics, special problems and honors seminars are allowed only by petition to and approval by the student's department chair.

The Engineering Management 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

1 of 3 12/19/2014 8:05 AM

world problems are emphasized as research, analysis, synthesis, and design are presented and discussed through classroom and laboratory instruction.

Free Electives Footnote:

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

Freshman Year			
First Semester	Credits	Second Semester	Credits
FR ENG 1100	1	MECH ENG 1720	3
CHEM 1310 ¹	4	MATH 1215 ¹	4
CHEM 1319	1	PHYSICS 1135 ¹	4
CHEM 1100	1	ECON 1100 or 1200	3
MATH 1214 ¹	4	Humanities Elective ²	3
ENGLISH 1120	3	COMP SCI 1972 ¹	2
HISTORY 1200, or 1300, or 1310, or POL SCI 1200	3	COMP SCI 1982	1
	17		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
MATH 2222 ¹	4	MATH 3304 ¹	3
PHYSICS 2135 ¹	4	STAT 3115 or 3117 ¹	3
<u>CIV ENG 2200</u> ¹	3	ENG MGT 2110 ¹	3
ENG MGT 1210 ¹	2	ENG MGT 2211 ¹	3
ENG MGT 2310 ¹	3	MECH ENG 2350	2
		PSYCH 1101	3
	16		17
Junior Year			
First Semester	Credits	Second Semester	Credits
ENG MGT 3310 ¹	3	ENG MGT 4710 ¹	3
<u>CIV ENG 2210</u>	3	MECH ENG 2527	3
<u>CIV ENG 2211</u>	1	ELEC ENG 2800	3
ENG MGT 3510 ¹	3	ENGLISH 3560	3
COMP SCI 1971 ¹	2	ENG MGT 3320 ¹	3
COMP SCI 1981	4		
SP&M S 1185 or 2181	3		
Humanities and Social Sciences	-		
SP&M S 1185 or 2181	3		
Humanities and Social Sciences ²	3		
	16		15
Senior Year			
First Semester	Credits	Second Semester	Credits
Emphasis Area Required Course	3	ENG MGT Technical Elective	3
Emphasis Area Required Course	3	ENG MGT Technical Elective	3
	3	ENG MGT 4907 ¹	3
Emphasis Area Required Course	3		
Emphasis Area Required Course ENG MGT 4110 ¹	3	Upper Level Hum/SS ²	3

2 of 3 12/19/2014 8:05 AM

Total Credits: 128

Example Emphasis Area Programs for Engineering Management Students

One unique aspect of the Engineering Management degree is the student's ability to select an established emphasis area or create a specialized emphasis. Two examples of established emphasis areas are shown below.

Management of Technology

ENG MGT 5511	Technical Entrepreneurship	3
ENG MGT 5512	Legal Environment	3
ENG MGT 5410	Industrial System Simulation	3
ENG MGT 5614	Supply Chain Management Systems	3
ENG MGT Technical Electives (in consultation with your advisor)		6

Industrial Engineering

ENG MGT 4310	Materials Handling And Plant Layout	3
ENG MGT 4330	Human Factors	3
ENG MGT 5410	Industrial System Simulation	3
ENG MGT 5414	Introduction To Operations Research	3
ENG MGT Technical Electives (in consultation with your advisor)		6

General

Engineering Area Courses (Engineering Discipline)	15
ENG MGT-Technical Elective	3

Note: All electives must be chosen in consultation with the student's advisor. Students must satisfy the common engineering freshman year course requirements in addition to the sophomore, junior, and senior year requirements listed above with a minimum of 128 hours.

- 1 Must have a grade of "C" or better in these courses for graduation, undefined and undefined may be substituted for undefined and undefined, respectively.
- Humanities and Social Science electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
- ³ Each student is required to take three hours of free electives in consultation with his/her academic advisor. Credits which do not count towards this requirement are deficiency courses (such as algebra and trigonometry), and extra credits in required courses. Any courses outside of engineering and science must be at least three credit hours.
- Students are required to select an emphasis area and maintain a minimum 2.0 GPA for these courses.
- All Engineering Management students must take the Associate Engineering Manager Certification exam prior to graduation. A passing grade on this examination is not required to earn a B.S. degree. 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 Associate Engineering Manager Certification score.

Justification for

Changes were approved by EMSE faculty during August 2014 department retreat.

request

Supporting

Documents

Course Reviewer

Comments

Key: 44

3 of 3 12/19/2014 8:05 AM

Program Change Request

Date Submitted: 10/21/14 12:29 pm

Viewing: FINANCE-MI: Finance Minor

File: 58.11

Last approved: 04/28/14 10:54 am

Last edit: 11/13/14 3:01 pm Changes proposed by: barryf

Information Science and Technology

Catalog Pages

Business and Management Systems

Using this Program

Start Term Fall 2015 8/1/2014

Program Code FINANCE-MI

Department Business and Information Technology

Title Finance Minor

Program Requirements and Description

Minor in Finance

The minor in Finance requires the following 15 hours of coursework:

In Workflow

- 1. RINFSCTE Chair
- 2. CCC Secretary
- 3. Social Sciences
 DSCC Chair
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate Chair
- 9. Registrar
- 10. josephj
- 11. juliep
- 12. pantaleoa

Approval Path

- 1. 11/13/14 1:36 pm siauk: Approved for RINFSCTE Chair
- 2. 11/13/14 2:15 pm kleb6b: Approved for CCC Secretary
- 11/13/14 3:01 pm kleb6b: Rollback to CCC Secretary for Pending CCC Agenda post
- 11/13/14 3:21 pm kleb6b: Approved for CCC Secretary
- 5. 11/17/14 9:48 am barryf: Approved for Social Sciences DSCC Chair

History

1. Apr 28, 2014 by barryf

ECON 1100	Principles Of Microeconomics	3
or <u>ECON 1200</u>	Principles Of Macroeconomics	
FINANCE 2150	Corporate Finance I	3
FINANCE 5260	Investments I	3
ECON 4720	International Finance	3
One additional FINANCE course at the 3000 level or a	bove (Undergraduate Research is acceptable).	3
Three additional FINANCE electives at the 3000 level or above (Undergraduate Research is acceptable)		
Total Credits		15

1 of 2 12/19/2014 8:06 AM

Justification for request

Supporting

Documents

Course Reviewer Comments

The Finance faculty desires more flexibility in the 9 hours beyond the initial 6. Reviewer Reviewer Reviewer Comments

Key: 58

Program Change Request

Date Submitted: 12/17/14 10:53 am

Viewing: IST-BS: Information Science and Tch BS

File: 75.7

Last approved: 04/28/14 11:04 am

Last edit: 12/19/14 2:51 pm

Changes proposed by: barryf

Catalog Pages Information Science and Technology

Using this
Program

Start Term Fall 2015-8/1/2014

Program Code IST-BS

Department Business and Information Technology

Title Information Science and Tch BS

Program Requirements and Description

Bachelor of Science Information Science and Technology

In Information Science and Technology, the Bachelor of Science degree consists of 120 credit hours. First, all undergraduate students in Information Science and Technology are required to complete a prescribed General Education Requirements Core that corresponds to the recommendations of the Missouri State Coordinating Board for Higher Education and consists of 54 credit hours in the areas of Natural Systems, Human Institutions, Quantitative Skills, and Communication Skills. In addition, all undergraduate students are required to complete a 27 credit hour core consisting of courses in Information Technology, Management, and Entrepreneurship. A minimum grade of "C" is required for courses in these areas. Finally, the degree includes 12 credit hours of free electives.

The remaining 27 credit hours of the required 120 credit hours for the Information Science and Technology degree are divided into a prescribed 18 credit hour degree core and 9 credit hours of specific degree electives. A minimum grade of "C" is required in these courses. The Information Science and Technology Degree requires courses in Database Management, Systems Analysis, Introduction to Data Science Web- and Management, Digital Media Development, Computing Internals, Networks and Communications, and Electronic and Mobile Commerce. E-Commerce. The electives for this degree consist of advanced coursework in the areas introduced by the required courses.

In Workflow

- 1. RINFSCTE Chair
- 2. CCC Secretary
- 3. Social Sciences
 DSCC Chair
- 4. Pending CCC Agenda post
- CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate Chair
- 9. Registrar
- 10. josephj
- 11. juliep
- 12. pantaleoa

Approval Path

- 1. 12/17/14 10:56 am siauk: Approved for RINFSCTE Chair
- 12/17/14 10:58 am kleb6b: Approved for CCC Secretary
- 12/17/14 9:14 pm barryf: Approved for Social Sciences
 DSCC Chair
- 12/19/14 8:08 am kleb6b: Approved for Pending CCC Agenda post
- 5. 12/19/14 2:51 pm kleb6b: Rollback to Pending CCC Agenda post for CCC Meeting Agenda

History

 Apr 28, 2014 by barryf

Freshman Year			
First Semester	Credits	Second Semester	Credits
BUS 1810 ¹	1	PSYCH 1101	3
ENGLISH 1120	3	MATH 1212	4
MATH 1140 ⁵	3	IS&T 1551	3
Science Elective ²	3	IS&T 1551	3
IS&T 1750	3	BUS 1110	3
IS&T 1750	3	BUS 1210	3

Laboratory w/Science Elective	1		
	14		16
Sophomore Year			
First Semester	Credits	Second Semester	Credits
ECON 1200	3	Fine Art, Social Science, or Humanities Elective ³	3
SP&M S 1185	3	IS&T 3131	3
IS&T 1552	3	<u>IS&T 3131</u>	3
SP&M S 1185	3	Science Elective ²	3
IS&T 1552	3	IS&T Eolective	3
ENGLISH 1600 or TCH COM 1600	3	STAT 3111	3
ERP 2110	3	ECON 1100	3
	15		15
Junior Year			
First Semester	Credits	Second Semester	Credits
IS&T-4654	3	IS&T Elective	3
IS&T 4654	3	IS&T 3343	3
FINANCE 2150	3	<u>IS&T 3343</u>	3
IS&T 3423	3	MKT 3110	3
IS&T 3333	3	IS&T 4641	3
IS&T-Elective	3	<u>IS&T 3420</u>	3
IS&T 3423	3	<u>IS&T 4641</u>	3
IS&T 3333	3	ENGLISH 2560 or TCH COM 2560	3
Fine Art, Social Science, or Humanities Elective ³	3		
	15		15
Senior Year			
First Semester	Credits	Second Semester	Credits
Free Electives	6	BUS 5980	3
Fine Art, Social Science, or Humanities Elective ³	3	POL SCI 1200	3
Speech or Tech Com Elective	3	IS&T Elective or Emphasis Area ⁴	3
History Elective	3	Free Electives	6
	15		15
Total Credits: 120			

A grade of "C" or better is required in the following courses for graduation; $\underline{BUS\ 1810}$, $\underline{BUS\ 5980}$, $\underline{IS\&T\ 1750}$, $\underline{IS\&T\ 1551}$, $\underline{IS\&T\ 1552}$,, $\underline{BUS\ 1110}$, $\underline{BUS\ 1210}$, $\underline{MKT\ 3110}$, $\underline{FINANCE\ 2150}$, $\underline{ECON\ 1100}$, $\underline{ECON\ 1200}$, $\underline{IS\&T\ 4654}$, $\underline{IS\&T\ 3423}$, $\underline{IS\&T\ 3131}$, $\underline{IS\&T\ 3333}$, $\underline{IS\&T\ 3420}$ $\underline{IS\&T\ 34641}$, and $\underline{IS\&T\ 3343}$.

- Writing Intensive Course
- ² Any course in the following areas: Biology, Chemistry, Geology, Geological Engineering, Physics.
- Any course in the following areas not used for other degree requirements: Art, Economics, English, Foreign Language, History, Literature, Music, Philosophy, Political Science, Psychology, Sociology, Theater.
- A grade of "C" or better is required in IS&T Electives and Emphasis Area courses for graduation. Students choosing the Human-Computer Interaction Emphasis Area must take <u>IS&T 5885</u>, <u>IS&T 5886</u>, and <u>IS&T 5887</u>. Students choosing the Enterprise Resource Planning Emphasis Area must take 9 hours of ERP-designated courses at the 4000-level or above. Students who choose no Emphasis Area must take three courses from: IS&T 4000-level or above, <u>COMP SCI 4700</u>, <u>COMP SCI 5601</u>.
- ⁵ MATH 1120 may be subsituted for MATH 1140.

Emphasis Areas

Two Emphasis Areas may be taken to specialize if the student wishes to do so. The first, Human-Computer Interaction, consists of three courses:

IS&T 5885	Human-Computer Interaction	3
IS&T 5886	Prototyping Human-Computer Interactions	3
IS&T 5887	Human-Computer Interaction Evaluation	3
<u>IS&T 5885</u>	Human-Computer Interaction	3
<u>IS&T 5886</u>	Prototyping Human-Computer Interactions	3
<u>IS&T 5887</u>	Human-Computer Interaction Evaluation	3

The second Emphasis Area, Enterprise Resource Planning, consists of any 9 hours of ERP-designated courses at the 4000-level or above.

Justification for request

Replacing a Speech or Technical Communication Elective by IS&T 4654-Web and Digital Media Development in one semester, then replacing IS&T 4654 in the semester where it was removed by IS&T 3420-Introduction to Data Science and Management (a new course). [The effect is to replace the Speech and Tech Com Elective by IS&T 3420.]

Also fixing some "course not found" errors.

The "undefined" notes are correct when expanded, but don't seem to be passed

forward correctly. All numbers in these notes appear to be correct.

Supporting Documents

Course Reviewer kleb6b (12/17/14 10:58 am): Change start term

Comments kleb6b (12/19/14 2:51 pm): Rollback: Fix "undefined" references

Key: 75

Program Change Request

New Program Proposal

Date Submitted: 12/12/14 6:35 pm

Viewing: PROPOSED: Business Analytics and Data

Science Minor

File: 239

Last edit: 12/19/14 8:11 am

Changes proposed by: barryf

Start Term Fall 2015

Program Code PROPOSED

Department Business and Information Technology

Title Business Analytics and Data Science Minor

Program Requirements and Description

The Minor in Business Analytics and Data Science requires the following 15 hours of coursework:

In Workflow

- 1. RINFSCTE Chair
- 2. CCC Secretary
- 3. Pending CCC Agenda post
- 4. CCC Meeting
- Agenda
 5. Campus Curricula
- Committee Chair
 6. FS Meeting Agenda
- 7. Faculty Senate Chair
- 8. Registrar
- 9. josephj
- 10. juliep
- 11. pantaleoa

Approval Path

- 1. 12/12/14 9:40 pm siauk: Approved for RINFSCTE Chair
- 2. 12/15/14 8:46 am kleb6b: Approved for CCC Secretary

<u>IS&T 1750</u>	Introduction to Management Information Systems	3
<u>IS&T 3423</u>	Database Management	3
<u>IS&T 3420</u>	Introduction to Data Science and Management	
<u>IS&T 4450</u>	Introduction to Information Visualization	
<u>IS&T 5420</u>	Business Analytics and Data Science	3

Justification for

A number of our undergraduates are interested in this area and we have recently

request

added appropriate courses to comprise a minor.

Supporting Documents

Course Reviewer

kleb6b (12/19/14 8:11 am): Changed "Minor in Business Analytics and Data Science"

Comments to "Business Analytics and Data Science Minor"

Key: 239

Program Change Request

New Program Proposal

Date Submitted: 11/13/14 12:55 pm

Viewing: PROPOSED: Human-Computer Interaction and User Experience Minor

File: 238

Last edit: 11/13/14 12:55 pm

Changes proposed by: barryf

Start Term Fall 2015

Program Code PROPOSED

Department Business and Information Technology

Title Human-Computer Interaction and User Experience Minor

Program Requirements and Description

The Minor in Human-Computer Interaction and User Experience requires the following 15 hours of coursework:

In Workflow

- 1. RINFSCTE Chair
- 2. CCC Secretary
- 3. Social Sciences
 DSCC Chair
- Pending CCC Agenda post
- 5. CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate Chair
- 9. Registrar
- 10. josephj
- 11. juliep
- 12. pantaleoa

Approval Path

- 1. 11/13/14 1:37 pm siauk: Approved for RINFSCTE Chair
- 2. 11/13/14 3:21 pm kleb6b: Approved for CCC Secretary
- 11/17/14 9:47 am barryf: Approved for Social Sciences DSCC Chair

<u>IS&T 4654</u>	Web and Digital Media Development	3
IS&T 4680	Introduction to Web and New Media Studies	3
<u>IS&T 5885</u>	Human-Computer Interaction	3
<u>IS&T 5886</u>	Prototyping Human-Computer Interactions	3
<u>IS&T 5887</u>	Human-Computer Interaction Evaluation	3

Justification for

Increased interest by undergraduate students in a focus on HCI and User Experience.

request

Supporting Documents

Course Reviewer

Comments

Key: 238

1 of 1 12/19/2014 8:09 AM

New Course Proposal

Date Submitted: 12/15/14 2:34 pm

Viewing: CHEM ENG 6010: Graduate Seminar

File: 4170

Last edit: 12/15/14 2:34 pm Changes proposed by: marlene

Requested Fall 2015

Effective Change

Date

Department Chemical and Biochemical Engineering

Discipline Chemical Engineering (CHEM ENG)

Course Number 6010

Title **Graduate Seminar**

Abbreviated **Graduate Seminar**

Course Title

Catalog

Description

Discussion of current topics. One of these topics will be expanded to write an in

depth report.

Prerequisites

Graduate standing.

Field Trip Statement

Credit Hours

LEC: 1-3

LAB: 0

IND: 0

RSD: 0

Total: 1-3

Required for

Yes

No

Majors

Elective for

Majors

Justification for

The topics will cover new areas of research where most of the speakers will be

new course: invited. The students are required to write a report on one of the presentations that

will include current quantitative description and analysis, suggested future work and

In Workflow

1. RCHEMENG Chair

2. CCC Secretary

3. Engineering DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

6. Campus Curricula

Committee Chair

7. FS Meeting

Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/15/14 2:43 pm aldahhanm:

Approved for

RCHEMENG Chair

2. 12/15/14 4:21 pm

kleb6b: Approved

for CCC Secretary 3. 12/17/14 11:14

am

sraper: Approved

for Engineering

DSCC Chair

list of related references. Grades will be given based on attendance record and the quality of the submitted report. Students will be taking the course for one credit hour unless there is a conflict. We incorrectly mapped ChE 410 into ChE 5010 we are correcting for that with ChE 6010.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4170

Date Submitted: 12/05/14 10:40 am

Viewing: ECON 2114: Managerial Economics

File: 2235.1

Last edit: 12/05/14 2:06 pm Changes proposed by: marcys

ECON-BS: Economics BS

Programs

referencing this

course

Requested Summer 2015 Fall 2014

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 2114

Title Managerial Economics

Abbreviated Managerial Economics

Course Title

Catalog

Description

Focuses on micro- and macroeconomic contributions to managerial decision-making, business analysis and strategy. The roles of information, economic incentives, efficient markets, profits and decision-making under risk and uncertainty will be explored in both domestic and global settings. Business students who become managers of business enterprises should understand how market economic forces create opportunities for making profit. Business students need to be trained in managerial applications of microeconomic theory. Managerial Economics brings together those topics in micro theory that can be applied to business decision making.

Prerequisites

Econ 1100 & 1200.

Field Trip

Statement

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

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC
Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/05/14 4:05 pm gelles: Approved for RECONOMI

Chair

2. 12/08/14 7:47 am kleb6b: Approved

for CCC Secretary 3. 12/17/14 9:10 pm

barryf: Approved

for Social

Sciences DSCC

Chair

Required for Majors	No
Elective for Majors	Yes
Justification for change:	Updating course to focus on a wider range of students.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	

Key: 2235

New Course Proposal

Date Submitted: 12/09/14 5:28 pm

Viewing: ECON 3000: Special Problems

File: 4166

Last edit: 12/09/14 5:28 pm Changes proposed by: marcys

Requested Summer 2015

Effective Change

Date

Department **Economics**

Discipline **Economics (ECON)**

Course Number 3000

Title **Special Problems**

Abbreviated **Special Problems**

Course Title

Catalog

Description

Problems or readings on specific subjects or projects in the department. Consent of instructor required.

Prerequisites

Field Trip Statement

Credit Hours

LEC: 0

LAB: 0

IND: 0-6

RSD: 0

Total: 0-6

Required for No

Majors

Elective for

Majors

No

Justification for

Course was not created during the renumbering structure.

new course:

Semesters

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar 10. Ishelton

11. Peoplesoft

Approval Path

1. 12/09/14 5:31 pm gelles: Approved for RECONOMI

Chair

2. 12/10/14 7:44 am kleb6b: Approved for CCC Secretary

3. 12/17/14 9:10 pm barryf: Approved

for Social

Sciences DSCC

Chair

12/19/2014 8:19 AM 1 of 2

previously offered as an experimental course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4166

New Course Proposal

Date Submitted: 11/12/14 1:56 pm

Viewing: ECON 4010: Seminar

File: 4144

Last edit: 11/12/14 1:56 pm Changes proposed by: marcys

Requested

Spring 2015

Effective Change

Date

Department

Economics

Discipline

Economics (ECON)

Course Number

4010

Title

Seminar

Abbreviated

Seminar

Course Title

Catalog

Description

Discussion of current topics.

Prerequisites

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 0

IND: 0.0-6.0

RSD: 0

Total: 0.0-6.0

Required for

No

Majors

Elective for

Yes

Majors

Justification for

Economics does not have a 'Seminar course' component in our curriculum so we're

new course:

adding it.

Semesters

0

previously

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

4. Pending CCC
Agenda post

5. CCC Meeting Agenda

6. Campus Curricula

Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/17/14 3:20 pm

gelles: Approved for RECONOMI

Chair

2. 11/18/14 8:58 am

kleb6b: Approved for CCC Secretary

3. 11/20/14 1:50 pm

barryf: Approved

for Social

Sciences DSCC

Chair

offered as an			
experimental			
course			
Co-Listed			
Courses:			
Course Reviewer			
Comments			

Key: 4144

Date Submitted: 12/05/14 11:19 am

Viewing: ECON 4641: Foundations of Sustainability

File: 2107.1

Last edit: 12/05/14 11:19 am Changes proposed by: marcys

Programs

GS ECON-MI: Global Sustainable Economics Minor

referencing this

course

course

HUM ENG-MI: Humanitarian Engineering and Science Minor

In The Prerequisites:

Other Courses referencing this

ECON 4642: Introduction to Global Eco- and Social-

preneurship and Innovation

ECON 6642: Global Eco- and Social-preneurship and

Innovation

Requested S

Summer 2015 Fall 2014

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 4641

Title Foundations of Sustainability

Abbreviated Foundations of Sustainability

Course Title

Catalog

Description

This interdisciplinary course is designed as an introduction to sustainability in commerce. It examines the concept of environmental, social, and economic issues in an organizational context. Principles, processes, and practices of sustainability will be explored.

Prerequisites Senior or Graduate standing.

Field Trip Statement

Credit Hours LEC: 3 LAB: 0

IND: 0

RSD: 0

Total: 3

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

4. Pending CCC
Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/05/14 4:05 pm

gelles: Approved for RECONOMI

Chair

2. 12/08/14 7:47 am kleb6b: Approved

for CCC Secretary

3. 12/17/14 9:10 pm

barryf: Approved

for Social

Sciences DSCC

Chair

1 of 2 12/19/2014 8:20 AM

Required for Majors	No
Elective for Majors	Yes
Justification for change:	Correcting mistakes from renumbering process.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	

Key: 2107

Date Submitted: 12/05/14 10:42 am

Viewing: ECON 4642: Introduction to Global Eco- and Social-

preneurship and Innovation

File: 2187.1

Last edit: 12/05/14 2:09 pm Changes proposed by: marcys

Programs

GS ECON-MI: Global Sustainable Economics Minor

HUM ENG-MI: Humanitarian Engineering and Science Minor

referencing this

course

Requested Summer 2015 Fall 2014

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 4642

Title Introduction to Global Eco- and Social-preneurship and Innovation

Abbreviated Intro Global Innovation

Course Title

Catalog

Description

This interdisciplinary course applies an entrepreneurial mindset to the environmental and social opportunities and challenges facing the global community. Topics are examined from multiple perspectives: nonprofit, hybrid, and for-profit organizations. Credit cannot be earned for both Econ 4642 and 5642.

Prerequisites

Econ 4641.

Field Trip

Statement

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

Required for No

Majors

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/05/14 4:05 pm gelles: Approved for RECONOMI Chair

2. 12/08/14 7:48 am kleb6b: Approved for CCC Secretary

3. 12/17/14 9:10 pm barryf: Approved for Social

Sciences DSCC

Chair

1 of 2 12/19/2014 8:21 AM

Elective for Majors	Yes
Justification for change:	Corrected mistakes from initial submission.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	

Key: 2187

Date Submitted: 12/05/14 10:46 am

Viewing: ECON 4643: Ethical Problems in a Global

Environment

File: 968.4

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

Last edit: 12/05/14 2:11 pm Changes proposed by: marcys

Requested Summer 2015 Fall 2014

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 4643

Title Ethical Problems in a Global Environment

Abbreviated Ethical Probs Global Env

Course Title

Catalog

Description

Focuses on the international dimension of ethics including corporate responsibility from economic, social, and environmental perspectives. It addresses the ethical challenges of decision making, stakeholder engagement, and governance at micro-(personal), meso- (org), and macro- (system) levels. Credit will not be given for both Econ 4643 and Econ 5643.

Prerequisites

Senior or graduate standing.

Field Trip Statement

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

Total: 3

Required for No

Majors

Elective for Yes-No

In Workflow

- 1. RECONOMI Chair
- 2. CCC Secretary
- 3. Social Sciences
 DSCC Chair
- Pending CCC Agenda post
- 5. CCC Meeting Agenda
- Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

- 1. 12/05/14 4:05 pm gelles: Approved for RECONOMI
 - Chair
- 2. 12/08/14 7:48 am kleb6b: Approved for CCC Secretary
- 3. 12/17/14 9:10 pm

barryf: Approved for Social

Sciences DSCC

Chair

History

1. May 3, 2014 by lahne (968.1)

Majors	
Justification for change:	Correcting errors from renumbering process.
Semesters previously offered as an experimental	
course	
Co-Listed	
Courses:	
Course Reviewer	
Comments	
	Key: 96

New Course Proposal

Date Submitted: 12/09/14 4:43 pm

Viewing: ECON 5010: Seminar

File: 4163

Last edit: 12/09/14 4:43 pm Changes proposed by: marcys

Requested Summer 2015

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 5010

Title Seminar

Abbreviated Seminar

Course Title

Catalog

Description

Discussion of current topics.

Prerequisites

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 0

IND: 0-6

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

Yes

Majors

Justification for

Economics does not have a 'Seminar course' component at this level in the

new course:

curriculum so we are adding one.

Semesters previously

0

1 of 2

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC

Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

 1. 12/09/14 5:09 pm gelles: Approved

for RECONOMI

Chair

2. 12/10/14 7:45 am

kleb6b: Approved for CCC Secretary

3. 12/17/14 9:11 pm

barryf: Approved

for Social

Sciences DSCC

Chair

offered as an			
experimental			
course			
Co-Listed			
Courses:			
Course Reviewer			
Comments			

Key: 4163

New Course Proposal

Date Submitted: 12/09/14 5:17 pm

Viewing: ECON 6000: Special Problems

File: 4165

Last edit: 12/09/14 5:31 pm Changes proposed by: marcys

Requested Summer 2015

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 6000

Title Special Problems

Abbreviated Special Problems

Course Title

Catalog

Description

Problems or readings on specific subjects or projects in the department. Consent of instructor required.

Prerequisites

Field Trip Statement

Credit Hours

LEC: 0

LAB: 0

IND: 0-6

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

No

Majors

Justification for

One was not created during the renumbering structure.

new course:

Semesters

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

4. Pending CCC
Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair
9. Registrar
10. Ishelton

11. Peoplesoft

Approval Path

1. 12/09/14 5:31 pm gelles: Approved for RECONOMI Chair

2. 12/10/14 7:45 am kleb6b: Approved for CCC Secretary

3. 12/17/14 9:13 pm barryf: Approved

for Social

Sciences DSCC

Chair

1 of 2 12/19/2014 8:33 AM

ECON 6000: Special Problems

previously offered as an experimental course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4165

New Course Proposal

Date Submitted: 12/09/14 4:46 pm

Viewing: ECON 6010: Seminar

File: 4164

Last edit: 12/09/14 4:46 pm Changes proposed by: marcys

Requested Summer 2015

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Seminar

Course Number 6010

Title Seminar

Abbreviated

Course Title

Catalog

Description

Discussion of current topics.

Prerequisites

Field Trip

Statement

Credit Hours

LEC: 0

LAB: 0

IND: 0-6

RSD: 0

Total: 0-6

Required for

No

Majors

Elective for

Yes

Majors

Justification for

Economics does not have a 'Seminar course' component in their curriculum at this

new course:

level so it is being added.

Semesters previously

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair
9. Registrar
10. Ishelton

11. Peoplesoft

Approval Path

1. 12/09/14 5:09 pm gelles: Approved for RECONOMI

Chair

2. 12/10/14 7:45 am kleb6b: Approved for CCC Secretary

3. 12/17/14 9:13 pm barryf: Approved

for Social

Sciences DSCC

Chair

1 of 2 12/19/2014 8:34 AM

offered as an			
experimental			
course			
Co-Listed			
Courses:			
Course Reviewer			
Comments			

Key: 4164

New Course Proposal

Date Submitted: 12/05/14 11:33 am

Viewing: ECON 6641: Advanced Foundations of Sustainability

File: 4160

Last edit: 12/05/14 11:33 am Changes proposed by: marcys

Requested Summer 2015

Effective Change

Date

Department **Economics**

Discipline **Economics (ECON)**

Course Number 6641

Title Advanced Foundations of Sustainability

Abbreviated Adv Found. of Sustainabi

Course Title

Catalog

Description

This interdisciplinary course is designed as an introduction to sustainability in commerce. It examines environmental, social, and economic issues in an organized context. Principles, processes and practices in sustainability will be explored. Project or written case study required.

Prerequisites

Field Trip

Statement

Credit Hours

LEC: 3 LAB: 0 IND: 0

RSD: 0

Total: 3

Required for No

Majors

Elective for

Yes

Majors

Justification for

This course (previously Econ 342) was a senior AND graduate class. Due to the

In Workflow

1. RECONOMI Chair

2. CCC Secretary

3. Social Sciences **DSCC Chair**

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar 10. Ishelton

11. Peoplesoft

Approval Path

1. 12/05/14 4:06 pm gelles: Approved for RECONOMI Chair

2. 12/08/14 7:49 am kleb6b: Approved for CCC Secretary

3. 12/17/14 9:13 pm barryf: Approved

for Social

Sciences DSCC

Chair

1 of 2 12/19/2014 8:34 AM new course:
renumbering issue, we are changing prereqs and creating Econ 6641 as the graduate version of the existing course; in preparation for Mining Economics Masters and graduate certificate.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 4160

Date Submitted: 12/05/14 10:49 am

Viewing: ECON 6643 5643-: Advanced Ethical Problems in a

Global Environment

File: 4048.7

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

Last edit: 12/05/14 2:12 pm Changes proposed by: marcys

Requested Summer 2015 Fall 2014

Effective Change

Date

Department **Economics**

Discipline **Economics (ECON)**

Course Number 6643-5643

Title Advanced Ethical Problems in a Global Environment

Adv Ethical Prob GlobEnv Abbreviated

Course Title

Catalog

Description

Focuses on the international dimension of ethics including corporate responsibility from economic, social, and environmental perspectives. It addresses the ethical challenges of decision-making, stakeholder engagement, and governance at micro-(personal), and meso-(org), and macro-(systems) levels. Case studies will be included as part of the course.

Prerequisites

Senior or graduate standing. Credit will not be given for both Econ 4643 and Econ 5643.

Field Trip

Statement

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

Total: 3

Required for No

Majors

In Workflow

- 1. RECONOMI Chair
- 2. CCC Secretary
- 3. Social Sciences **DSCC Chair**
- 4. Pending CCC Agenda post
- 5. CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. FS Meeting Agenda
- 8. Faculty Senate

Chair 9. Registrar

- 10. Ishelton
- 11. Peoplesoft

Approval Path

- 1. 12/05/14 4:06 pm gelles: Approved
 - for RECONOMI
 - Chair
- 2. 12/08/14 7:49 am kleb6b: Approved
 - for CCC Secretary
- 3. 12/17/14 9:14 pm

barryf: Approved

for Social

Sciences DSCC

Chair

History

1. May 3, 2014 by marcys

12/19/2014 8:35 AM 1 of 2

Elective for Majors	Yes
Justification for change:	Correcting errors from renumbering process.
Semesters previously offered as an experimental course Co-Listed Courses:	BUS 301 in SS 2012 ECON 301 in SS 2013
Course Reviewer	

Date Submitted: 11/18/14 2:33 pm

Viewing: ENG MGT 1210: Economic Analysis of Engineering

Projects

File: 92.1

Last edit: 11/19/14 9:02 am Changes proposed by: sraper

Programs

referencing this

course

ARC ENG-BS: Architectural Engineering BS

CR ENG-BS: Ceramic Engineering BS CV ENG-BS: Civil Engineering BS

ENG MG-BS: Engineering Management BS

GE ENG-BS: Geological Engineering BS MC ENG-BS: Mechanical Engineering BS

MT ENG-BS: Metallurgical Engineering BS

Other Courses

referencing this course

In The Prerequisites:

ENG MGT 2211 : Engineering Accounting and Finance ENG MGT 6211: Advanced Financial Management

ENG MGT 6212 : Investment

ENG MGT 6213: Financial Engineering

ENG MGT 6215: Financial Risk Management EXP ENG 5514: Display Fireworks Manufacturing

SYS ENG 6612: Investment

SYS ENG 6613: Financial Engineering

SYS ENG 6615: Financial Risk Management

Requested

Fall 2015 2014

Effective Change

Date

Engineering Management and Systems Engineering Department

Discipline Engineering Management (ENG MGT)

Course Number 1210

Title **Economic Analysis of Engineering Projects**

Abbreviated

Econ Analysis of Engr Projects

Course Title

Catalog Engineering project analysis from an engineering economics perspective. Topics

Description include: interest, equivalent worth, comparing alternatives, rate of return methods,

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC

Chair

4. Pending CCC

Agenda post 5. CCC Meeting

Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:55 pm enke: Approved for RENGMNGT

Chair

2. 11/19/14 9:02 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:14 am sraper: Approved

for Engineering

DSCC Chair

1 of 2 12/19/2014 8:41 AM depreciation and taxes, inflation and price changes, benefit-cost analysis and risk analysis.

Prerequisites Math 1214. 1215.

Field Trip

Statement

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

Required for

Yes

Majors

Elective for

No

Majors

Justification for Approved by EMSE Faculty during August 2014 Retreat.

change:

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 92

2 of 2 12/19/2014 8:41 AM

Date Submitted: 11/18/14 2:38 pm

Viewing: ENG MGT 2310: Introduction to Complex-System

Engineering Management

File: 1393.1

Last edit: 11/18/14 2:38 pm Changes proposed by: sraper

ENG MG-BS: Engineering Management BS

Programs

referencing this

course

Requested Fall 2015 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 2310

Title Introduction to Complex-System Engineering Management

Abbreviated Intro Complex System Eng

Course Title Mgt

Catalog

Description

Provide an understanding of complex-systems engineering and tools to manage complexity in system design, construction, and operation. Topics include systems thinking, modeling and simulation of systems, uncertainty in engineering, risk, and decision making in certain and uncertain environments.

Prerequisites

Math 1208 or Math 1214.

Field Trip

Statement

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

Required for Yes

Majors

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:56 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:02 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering

DSCC Chair

1 of 2 12/19/2014 8:41 AM

Elective for Majors	No
Justification for change:	Approved by by EMSE faculty during August retreat. Title change and catalog description provide more closely reflects course content and objectives.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	

Date Submitted: 11/18/14 2:44 pm

Viewing: ENG MGT 3310: Operations and And-Production

Management

File: 2379.1

Last edit: 12/19/14 8:42 am Changes proposed by: sraper

Programs

EL ENG-BS: Electrical Engineering BS

referencing this

ENG MG-BS: Engineering Management BS

course

ENG MGT-MI: Engineering Management Minor

course

In The Prerequisites:

Other Courses referencing this

ENG MGT 5314: Computer Integrated Manufacturing Systems

ENG MGT 5412 : Operations Management Science

ENG MGT 5515 : Integrated Product And Process Design ENG MGT 5615 : Production Planning And Scheduling

MECH ENG 5757 : Integrated Product And Process Design

Requested

Fall **2015** 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 3310

Title Operations and And Production Management

Abbreviated Oper & Production Mgt

Course Title

Catalog

Description

Concepts of operations and production management are presented at an introductory level. Qualitative and quantitative tools and techniques used for the optimization of the operations component of the total enterprise are explored in the context of improved productivity and strategic competitiveness.

Prerequisites Eng Mgt 2110. Eng Mgt 2110 and 2211; Stat 3115 or Stat 3117.

Field Trip Statement In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC

Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:57 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:02 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering

DSCC Chair

1 of 2 12/19/2014 8:42 AM

Credit Hours Required for Majors Elective for	LEC: 3 Yes	LAB: 0	IND: 0	RSD: 0	Total: 3
Majors					
Justification for change:	Approved by E	EMSE faculty duri	ng August 2014	retreat.	
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

Date Submitted: 11/18/14 2:45 pm

Viewing: ENG MGT 3320: Introduction to Project

Management

File: 827.1

Last edit: 11/18/14 2:45 pm Changes proposed by: sraper

Programs

ENG MG-BS: Engineering Management BS

MGMT-MI: Management Minor

referencing this

course

Requested Fall **2015** 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 3320

Title Introduction to Project Management

Abbreviated Intro to Project Management

Course Title

Catalog

Description

This course covers the fundamentals of project management including project definition, project selection, project planning, estimating, scheduling, resource allocation and project control.

Prerequisites

Junior or above standing. Eng Mgt 2110.

Field Trip Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes

Majors

Elective for No

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:57 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:02 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering DSCC Chair

1 of 2 12/19/2014 8:43 AM

Majors	
Justification for change:	Approved by EMSE faculty during August 2014 retreat.
Semesters	
previously	
offered as an	
experimental	
course	
Co-Listed	
Courses:	
Course Reviewer	
Comments	

Date Submitted: 11/18/14 2:43 pm

Viewing: ENG MGT 3510: Marketing Management

File: 496.1

Last edit: 11/18/14 2:43 pm

Changes proposed by: sraper

ENG MG-BS: Engineering Management BS
Programs

In The Prerequisites:

referencing this

course

course

Other Courses referencing this

BUS 4150 : Customer Focus and Satisfaction

BUS 4675 : International Business
BUS 5580 : Strategic Management

BUS 6150: Advanced Customer Focus and Satisfaction

<u>BUS 6675 : Advanced International Business</u> <u>MKT 4150 : Customer Focus and Satisfaction</u>

MKT 4580 : Marketing Strategy

MKT 6150: Advanced Customer Focus and Satisfaction

MKT 6580: Advanced Marketing Strategy

Requested Fall 2015 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 3510

Title Marketing Management

Abbreviated Marketing Management

Course Title

Catalog

Description

Study of basic functions of marketing in the technological enterprise, including product selection and development, market research, market development, selection of distribution channels and advertising, marketing strategy.

Prerequisites Preceded or accompanied by Eng Mgt 2110. A grade of "C" or better is required in

this course to meet Engineering Management degree requirements.

In Workflow

1. RENGMNGT

Chair

2. CCC Secretary

3. Engineering DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:57 pm enke: Approved for RENGMNGT

Chair

2. 11/19/14 9:03 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved

for Engineering

DSCC Chair

1 of 2 12/19/2014 8:44 AM

Field Trip Statement						
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3	
Required for Majors	Yes					
Elective for Majors	No					
Justification for change:	Approved b	y EMSE faculty c	luring August 20	14 Retreat.		
Semesters previously offered as an experimental course						
Co-Listed Courses:						
Course Reviewer						

Date Submitted: 11/18/14 2:50 pm

Viewing: ENG MGT 4110: General Management-Design and

And-Integration

File: 2431.1

Last edit: 12/19/14 8:45 am Changes proposed by: sraper

ENG MG-BS: Engineering Management BS

Programs

referencing this

course

Other Courses In The Prerequisites:

referencing this

ENG MGT 4907: Engineering Management Senior Design

course

Requested Fall 2015 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 4110

Title General Management-Design and And-Integration

Abbreviated General Mgt-Dsgn & Integ

Course Title

Catalog

Description

Integrating and executing marketing, production, finance, and engineering policies and strategies for the benefit of an enterprise. Analysis, forcasting, and design methods using case studies and management simulation.

Prerequisites

Eng Mgt **2210**, **2211**; preceded or accompanied by Eng Mgt 2211, 3510, 3310, **3320**, **4710**, and 3320; senior standing. A grade of "C" or better is required in this course to meet Engineering Management degree requirements.

Field Trip

Statement

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:54 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:03 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering DSCC Chair

1 of 2 12/19/2014 8:46 AM

Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	Yes				
Elective for Majors	No				
Justification for change:	Approved by I	EMSE faculty dur	ing August 2014	retreat.	
Semesters					
previously					
offered as an					
experimental course					
Co-Listed					
Courses:					
Course Reviewer					
Comments					

Date Submitted: 11/18/14 3:25 pm

Viewing: ENG MGT 4310: Materials Handling and And-Plant

Layout

File: 2430.1

Last edit: 12/19/14 8:46 am Changes proposed by: sraper

Programs

referencing this

course

Other Courses In The Prerequisites:

referencing this

ENG MGT 5610 : Advanced Facilities Planning & Design

ENG MG-BS: Engineering Management BS

course

Requested Fall **2015** 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 4310

Title Materials Handling and And-Plant Layout

Abbreviated Mtls Hndl & Plnt Layout

Course Title

Catalog

Description

The design and objectives of materials handling equipment including diversity of application in industry from the viewpoint of efficient movement of materials and products from the receiving areas to the shipping areas. The layout of a plant to include materials handling equipment is considered throughout. Cost comparison of various systems will be made.

Prerequisites Junior standing.

Field Trip

Statement

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

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC

Agenda post
5. CCC Meeting

Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:59 pm enke: Approved for RENGMNGT

Chair

2. 11/19/14 9:03 am kleb6b: Approved for CCC Secretary

 12/05/14 9:15 am sraper: Approved for Engineering DSCC Chair

Required for Majors	Yes
Elective for Majors	Yes
Justification for change:	Approved by EMSE faculty during August 2014 retreat. This course is required for Industrial Engineering Emphasis students and a technical elective for MOT emphasis area and general option students.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	

Date Submitted: 11/18/14 3:17 pm

Viewing: ENG MGT 4907: Engineering Management Senior

Design

File: 164.1

Last edit: 11/18/14 3:17 pm Changes proposed by: sraper

ENG MG-BS: Engineering Management BS

Programs

referencing this

course

Fall 2015 2014 Requested

Effective Change

Date

Department **Engineering Management and Systems Engineering**

Discipline Engineering Management (ENG MGT)

Course Number 4907

Title **Engineering Management Senior Design**

Abbreviated Eng Mgt Senior Design

Course Title

Catalog

Description

Open-ended design projects will be addressed with small teams. The emphasis will be on solving industry-based projects that are broad in nature and which will require the students to incorporate the knowledge and skills acquired in earlier course work in the solution of the problems.

Prerequisites

Preceded or accompanied by Eng Mgt 4110. 4110 and 4710.

Field Trip

Statement

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

Required for Yes

Majors

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:58 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:03 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering DSCC Chair

12/19/2014 8:47 AM 1 of 2

Elective for Majors	No
Justification for change:	Approved by EMSE faculty during August 2014 retreat.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	

Date Submitted: 11/18/14 3:32 pm

Viewing: ENG MGT 5412: Operations Management Science

File: 393.1

Last edit: 11/18/14 3:32 pm

Changes proposed by: sraper

Catalog Pages

referencing this

course

ENG MG-MS: Engineering Management MS

Engineering Management

Programs

referencing this

course

Other Courses In The Prerequisites:

referencing this

STAT 6238 : Stochastic Optimization

course

Requested Fall 2015 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5412

Title Operations Management Science

Abbreviated Operations Management Sci

Course Title

Catalog

Description

Application of management science with an emphasis on supporting managerial decision-making. Design and operations of systems are modeled and analyzed using quantitative and qualitative techniques implemented using modern technology. Specific approaches include mathematical modeling and optimization, probabilistic/statistical analysis, and simulation.

Prerequisites Graduate standing. Eng Mgt 3310 with at least a "C" or graduate standing.

Field Trip

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC

Chair

Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton

Peoplesoft

Approval Path

1. 11/18/14 6:00 pm enke: Approved for RENGMNGT

Chair

 2. 11/19/14 9:03 am kleb6b: Approved for CCC Secretary
 3. 12/05/14 9:15 am

sraper: Approved for Engineering

DSCC Chair

1 of 2 12/19/2014 8:48 AM

Statement					
Credit Hours	LEC: 3	LAB: 0	IND: 0	RSD: 0	Total: 3
Required for Majors	Yes				
Elective for Majors	No				
Justification for change:		course for Engin Juring August 20		ent Masters pro	gram. Approved by
Semesters previously offered as an experimental course					
Co-Listed Courses:					
Course Reviewer Comments					

Date Submitted: 11/18/14 3:26 pm

Viewing: ENG MGT 5510: Industrial Marketing Systems

Analysis

File: 651.1

Last edit: 11/18/14 3:26 pm Changes proposed by: sraper

Requested Fall 2015 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5510

Title Industrial Marketing Systems Analysis

Abbreviated Indus Market System Anal

Course Title

Catalog

Description

An analysis of the factors of engineered products, customers, communication, promotion, personal selling, persuasion and management within a dynamic industrial sales environment.

Prerequisites

Senior or graduate standing.

Field Trip Statement

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for Approved by EMSE faculty during August 2014 retreat.

change:

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 6:00 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:03 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering DSCC Chair

1 of 2 12/19/2014 8:49 AM

Semesters
previously
offered as an
experimental
course
Co-Listed

Course Reviewer

Comments

Courses:

Key: 651

Date Submitted: 11/18/14 3:21 pm

Viewing: ENG MGT 5512: Legal Environment

File: 870.1

Last edit: 11/18/14 3:21 pm Changes proposed by: sraper

Programs

ENG MG-BS: Engineering Management BS

referencing this

INORGPS-MS: Industrial Organizational Psychology MS

course

PRE LAW-MI: Pre Law Minor

Requested

Fall **2015** 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5512

Title Legal Environment

Abbreviated Legal Environment

Course Title

Catalog

Description

Study of the effect of the legal environment on the decisions which the engineering manager must make. The course investigates the social forces that produced this environment and the responsibilities incumbent upon the engineer.

Prerequisites

Senior or graduate standing.

Field Trip Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes

Majors

Elective for

Yes

Majors

In Workflow

1. RENGMNGT

Chair

2. CCC Secretary

3. Engineering DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 5:58 pm enke: Approved for RENGMNGT

Chair

2. 11/19/14 9:04 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering

naca al :

DSCC Chair

Docc chair

1 of 2 12/19/2014 8:50 AM

Justification for change: Approved by EMSE faculty during August 2014 retreat. This course is required for MOT Emphasis area students and is a technical elective for the Industrial Engineering Emphasis area and the General Option.

Semesters previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 870

Date Submitted: 11/18/14 3:29 pm

Viewing: ENG MGT 5610: Advanced Facilities Planning &

Design

File: 2070.1

Last edit: 11/18/14 3:29 pm Changes proposed by: sraper

Requested Fall 2015 2014

Effective Change

Date

Department Engineering Management and Systems Engineering

Discipline Engineering Management (ENG MGT)

Course Number 5610

Title Advanced Facilities Planning & Design

Abbreviated Adv Facil Plan & Design

Course Title

Catalog

Description

An integrated approach to the planning and design of facilities; examination of advanced techniques and tools for facility location, space allocation, facility layout materials handling system design, work place design; e.g. mathematical programming and simulation modeling.

Prerequisites

Graduate standing. Eng Mgt 4310 or instructor's permission.

Field Trip Statement

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for Approved by EMSE faculty during August 2014 retreat.

In Workflow

1. RENGMNGT Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 11/18/14 6:00 pm enke: Approved for RENGMNGT Chair

2. 11/19/14 9:04 am kleb6b: Approved for CCC Secretary

3. 12/05/14 9:15 am sraper: Approved for Engineering DSCC Chair

1 of 2 12/19/2014 8:51 AM

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

New Course Proposal

Date Submitted: 09/24/14 2:40 pm

Viewing: GEO ENG 5332: Fundamentals of Groundwater

Hydrology

File: 4120

Last edit: 11/25/14 2:35 pm Changes proposed by: norbert

Requested

Fall 2015

Effective Change

Date

Department

Geosciences and Geological and Petroleum

Engineering

Discipline

Geological Engineering (GEO ENG)

Course Number

5332

Title

Fundamentals of Groundwater Hydrology

Abbreviated

Groundwater Hydrology

Course Title

Catalog

Description

Focus on fundamental analysis and survey of groundwater hydrology with emphasis on practical geo-environmental and subsurface hydrology issues of interest to working professionals. Topics will include general hydrology, surface and subsurface intercconnection, basic groundwater flow and well test analysis, and a brief intro to contaminant transport.

Prerequisites

Field Trip Statement

none

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

In Workflow

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

Chair 9. Registrar 10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 10:42

reflori: Approved for RGEOSENG Chair

2. 12/08/14 11:09

kleb6b: Approved for CCC Secretary

3. 12/15/14 4:28 pm sraper: Approved

for Engineering **DSCC Chair**

Required for Majors

No

Elective for Yes

12/19/2014 9:55 AM 1 of 2

M	aj	jo	rs

Justification for

new course:

This class is intended to be taught as a distance class to working professionals from a wide variety of academic backgrounds; therefore, the mathematical complexity will be at a basic level and the focus is on a general understanding of groundwater

hydrology.

Semesters

FS 13, FS 14

previously offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4120

New Course Proposal

Date Submitted: 09/24/14 2:31 pm

Viewing: GEO ENG 5415: Soil Mechanics for Geoprofessionals

File: 4119

Last edit: 11/25/14 2:36 pm Changes proposed by: norbert

Requested Summer 2015

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 5415

Title Soil Mechanics for Geoprofessionals

Abbreviated Soil Mechanics

Course Title

Catalog

Description

The basic principles of soil mechanics necessary for professionals to practice in the field of geoconstruction. Topics related to the practical aspects of engineering include: soil classification, index properties, water flow through soils, compaction, compressibility, and shear strength. These basic principles will be applied to real world problems.

Prerequisites

Field Trip
Statement
none

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar 10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 10:43

all

reflori: Approved for RGEOSENG Chair

2. 12/08/14 11:09

all

kleb6b: Approved for CCC Secretary 3. 12/15/14 4:28 pm sraper: Approved

> for Engineering DSCC Chair

1 of 2 12/19/2014 9:56 AM

Justification for new course:

Semesters SS 13, SS 12

previously offered as an experimental course

Co-Listed Courses:

Course Reviewer Comments

Key: 4119

New Course Proposal

Date Submitted: 09/25/14 8:40 am

Viewing: GEO ENG 6400: Practice Oriented Project

File: 4121

Last edit: 11/25/14 2:22 pm Changes proposed by: norbert

Requested Spring 2015

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Geological Engineering (GEO ENG)

Course Number 6400

Title Practice Oriented Project

Abbreviated Project

Course Title

Catalog

Description

This class will consist of a single term project. Students will, in consultation with the instructor, pick a topic relevant to their studies, and produce a comprehensive, in depth, professionally written report, including a literature review on the state of the practice on that topic.

Prerequisites

Limited to students enrolled in the Masters of Engineering (M.E.) in Geotechnics Program.

Field Trip Statement none.

none.

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

Total: 3

Required for Yes

Majors

Elective for No

Majors

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC
Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 10:44

alli

reflori: Approved for RGEOSENG Chair

2. 12/08/14 11:10

alli

kleb6b: Approved for CCC Secretary 3. 12/15/14 4:28 pm sraper: Approved

for Engineering
DSCC Chair

1 of 2 12/19/2014 9:57 AM

Justification for new course:

A minimum 3-hour practice-oriented project is required for all M.E. candidates.

Currently students do this by registering for a GE 6000 Special Problems class.

Because there is a maximum of 4 hours allowed of Special Problems, this creates a situation where students cannot take a second 3 hours Special Problems class.

Semesters

previously
offered as an experimental course

Co-Listed
Courses:

Course Reviewer

Comments

Key: 4121

Date Submitted: 09/05/14 9:59 am

Viewing: GEOPHYS 3210 2210: Introduction to Geophysics

File: 745.1

Last edit: 09/05/14 9:59 am Changes proposed by: liukh

Fall 2015 2014 Requested

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Geophysics (GEOPHYS)

Course Number 3210-2210

Title Introduction to Geophysics

Abbreviated Introduction to Geophysics

Course Title

Catalog

Description

An introduction to a broad area of solid earth geophysics and exploration geophysics. Topics include plate tectonics, earthquake study, structure and dynamics of the Earth's deep interior, gravity, magnetism, heat flow, and geophysical exploration for natural resources.

Prerequisites

Math 1208 and Geology 1110.

Field Trip

Statement

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

Total: 3

Required for Yes

Majors

Elective for No

Majors

Justification for Change the course number to 3210. In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 10:44

reflori: Approved for RGEOSENG Chair

2. 12/08/14 11:10

kleb6b: Approved for CCC Secretary

3. 12/19/14 8:10 am

imorgan: Approved for

Sciences DSCC

Chair

12/19/2014 9:57 AM 1 of 2

change:

This course was renumbered from Geophys 270. Many graduate students took it for graduate studies. We propose to change it to a 3000 level course so that graduate students can take it.

Semesters previously offered as an experimental

course

Co-Listed Courses:

Course Reviewer

Comments

Key: 745

Date Submitted: 12/08/14 9:57 am

Viewing: GEOPHYS 5251 4251: Exploration and And

Development Seismology

File: 768.1

Last edit: 12/19/14 9:59 am Changes proposed by: liukh

Other Courses

In The Catalog Description:

referencing this

GEO ENG 6784: Advanced Engineering And Environmental

Geophysics course

Requested

Fall 2015 2014

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Geophysics (GEOPHYS) Discipline

Course Number 5251 4251

Title Exploration and And Development Seismology

Abbreviated

Expl & Devlp Seismology

Course Title

Catalog

Description

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

Prerequisites

Math 2222.

Field Trip Statement

Credit Hours LEC: 2 LAB: 1 IND: 0

No Required for

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

6. Campus Curricula Committee Chair

7. FS Meeting

Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 11:46

reflori: Approved

for RGEOSENG

Chair

2. 12/08/14 11:59

kleb6b: Approved for CCC Secretary

3. 12/19/14 8:13 am

imorgan:

Approved for

Sciences DSCC

Chair

1 of 2 12/19/2014 9:59 AM

RSD: 0

Total: 3

Majors	
Elective for Majors	No
Justification for change:	Change the course number to 5251. The course Geophys 4251 (formerly 385) has been taking by both undergraduate and graduate students. We propose to change to a 5000 level course so that graduate students can take it.
Semesters previously offered as an experimental course	
Co-Listed Courses:	
Course Reviewer Comments	imorgan (12/19/14 8:12 am): Effective date changed to FS 2015 because of deadlines (OK per department representative)

Date Submitted: 08/29/14 3:36 pm

Viewing: GEOPHYS 5261 4221: Computational Geophysics

File: 1008.1

Last edit: 12/08/14 12:00 pm Changes proposed by: pattyr

Requested Fall 2015 2014

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Geophysics (GEOPHYS)

Course Number **5261**-4221

Title Computational Geophysics

Abbreviated Computational Geophysics

Course Title

Catalog

Description

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

Prerequisites

Geophys 2210.

Field Trip Statement

Credit Hours

LEC: 1

LAB: 2

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

change:

Justification for

Change the course number to 5261. The course Geophys 4221 (formerly 320) has been taking by both undergraduate and graduate students. We propose to change to

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

CCC Mass

5. CCC Meeting Agenda

Agenda

6. Campus Curricula

Committee Chair
7. FS Meeting

Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 11:46

am

reflori: Approved for RGEOSENG

Chair

Citali

2. 12/08/14 12:00

þm

kleb6b: Approved for CCC Secretary

3. 12/19/14 8:14 am

imorgan:

Approved for

Sciences DSCC

Chair

1 of 2 12/19/2014 10:06 AM

Course Reviewer

Comments

a 5000 level course so that graduate students can take it.

Semesters
previously
offered as an
experimental
course

Co-Listed
Courses:

Key: 1008

Date Submitted: 08/29/14 3:33 pm

Viewing: GEOPHYS 5736 4211: Geophysical Field Methods

File: 2205.1

Last edit: 12/08/14 11:15 am Changes proposed by: pattyr

Requested Fall 2015 2014

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Geophysics (GEOPHYS)

Course Number **5736-4211**

Title Geophysical Field Methods

Abbreviated Geophysical Field Meth

Course Title

Catalog

Description

Imaging of selected subsurface features and engineering structures using various geophysical tools. Special emphasis is placed on ground penetrating radar and surface wave techniques.

Prerequisites

Junior level standing or higher.

Field Trip

Statement

One field trip at student expense required.

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for Change course number from 4211 to 5736. This course is co-listed with Geo Eng change: 5736. Students were confused by the different course numbers. Therefore, we

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 10:55

am

reflori: Approved for RGEOSENG

Chair

2. 12/08/14 11:15

dIII

kleb6b: Approved for CCC Secretary

3. 12/19/14 8:14 am

imorgan:

Approved for

Sciences DSCC

Chair

1 of 2 12/19/2014 10:07 AM

propose to change this course number to be the same as Geo Eng's.

Semesters

previously

offered as an

experimental

course

Co-Listed

GEO ENG 5736 - Geophysical Field Methods

Courses:

Course Reviewer

Comments

Key: 2205

Date Submitted: 08/29/14 3:29 pm

Viewing: GEOPHYS 5761 3241: Transportation Applications of

Geophysics

File: 1330.1

Last edit: 12/19/14 8:17 am Changes proposed by: pattyr

Other Courses

In The Catalog Description:

referencing this

GEO ENG 5761: Transportation Applications of Geophysics

course

Requested Fall 2015 2014

Effective Change

Date

Department Geosciences and Geological and Petroleum

Engineering

Discipline Geophysics (GEOPHYS)

Course Number **5761 3241**

Title Transportation Applications of Geophysics

Abbreviated

Transport Appl of Geophysics

Course Title

Catalog

Description

Overview of geophysical and non-destructive test methods that are commonly used to investigate transportation structures and their foundations. Emphasis is placed on bridge system substructure, bridge system superstructure, pavement, roadway subsidence, subsurface characterization and vibration measurements.

Prerequisites

Junior level standing or higher.

Field Trip Statement

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

Required for No

In Workflow

1. RGEOSENG Chair

2. CCC Secretary

3. Sciences DSCC

Chair

4. Pending CCC Agenda post

5. CCC Meeting

Agenda

Campus Curricula Committee Chair

7. FS Meeting

Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/08/14 10:54

am

reflori: Approved for RGEOSENG Chair

Citali

2. 12/08/14 11:16

alli

kleb6b: Approved for CCC Secretary

3. 12/19/14 8:17 am

imorgan:

Approved for

Sciences DSCC

Chair

1 of 2 12/19/2014 10:08 AM

Majors	
Elective for Majors	Yes
Justification for change:	Change course number from 3241 to 5761. This course is co-listed with Geo Eng 5761. Students were confused by the different course numbers. Therefore, we propose to change this course number to be the same as Geo Eng's.
Semesters previously offered as an experimental course	
Co-Listed Courses:	GEO ENG 5761 - Transportation Applications of Geophysics CIV ENG 5750 - Transportation Applications of Geophysics
Course Reviewer Comments	imorgan (12/19/14 8:17 am): Check for CC forms for GEO ENG 5761 and CIV ENG 5750. (I meant to make a similar comment on the GEOPHYS 5736 form but I forgot.)

Date Submitted: 12/12/14 6:31 pm

Viewing: IS&T 3333: Data Networks and Information Security

Introduction To Telecommunications Networks

File: 2225.1

Last edit: 12/12/14 6:31 pm Changes proposed by: barryf

Programs referencing this

IST-BS: Information Science and Tch BS

MOBLB&T-MI: Mobile Bus & Tech Minor

course

course

Other Courses referencing this

In The Prerequisites:

<u>IS&T 3321</u>: Network Performance Design And Management <u>IS&T 4335</u>: Fundamentals of Mobile Technology for Business

IS&T 4642 : E-Commerce Architecture

IS&T 6335 : Mobile Technology for Business

Requested

Fall **2015** 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 3333

Title Data Networks and Information Security Introduction To

Telecommunications Networks

Abbreviated Networks & Info Security

Course Title Telecom Networks

Catalog

Description

The course provides an overview of intro to current and evolving networking telecommunications technologies, including voice, data and information security principles. video. Concepts include network technologies, standards and protocols; network construction, operation and management; switching and switching; routing; area networks; wireless network infrastructure; security frameworks, policies, and management. and mobile network infrastructure.

Prerequisites IS&T 1750; IS&T 1552 or Comp Sci 1510.

In Workflow

1. RINFSCTE Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton11. Peoplesoft

Approval Path

1. 12/12/14 9:35 pm siauk: Approved for RINFSCTE

Chair

2. 12/15/14 8:44 am kleb6b: Approved for CCC Secretary

3. 12/15/14 1:07 pm

barryf: Approved for Social

Sciences DSCC

Chair

1 of 2 12/19/2014 10:09 AM

Field Trip Statement

Credit Hours LEC: 1.5-2 LAB: 1.5-1 IND: 0 RSD: 0 Total: 3

Required for

No

Majors

Elective for No

Majors

Updating course to provide more laboratory time, reflecting the additional emphasis

Justification for change:

on security, and adding one prerequisite.

Semesters previously

offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 2225

12/19/2014 10:09 AM 2 of 2

New Course Proposal

Date Submitted: 12/12/14 6:31 pm

Viewing: IS&T 3420: Introduction to Data Science and

Management

File: 4156

Last edit: 12/15/14 8:44 am Changes proposed by: barryf

IST-BS: Information Science and Tch BS **Programs**

referencing this

PROPOSED: Minor in Business Analytics and Data Science

course

Requested Fall 2015

Effective Change

Date

Business and Information Technology Department

Discipline Info Science & Technology (IS&T)

3420 Course Number

Title Introduction to Data Science and Management

Abbreviated Intro Data Science & Mgt

Course Title

Catalog

Description

Introduces students to increasing business success through analysis of large-scale data collections. Topics include: import/export of data, summary statistics, crosstabulation, data transformations (sub setting, merging, sorting and aggregation), modeling methods, and visualization. Significant programming in R is expected.

Prerequisites

IS&T 1552 or Comp Sci 1510.

Field Trip

Statement

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

Required for Yes

Majors

In Workflow

1. RINFSCTE Chair

2. CCC Secretary

3. Social Sciences **DSCC Chair**

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/12/14 9:39 pm siauk: Approved for RINFSCTE Chair

2. 12/15/14 8:44 am kleb6b: Approved for CCC Secretary

3. 12/15/14 1:07 pm barryf: Approved

for Social

Sciences DSCC

Chair

12/19/2014 10:10 AM 1 of 2

Elective for Majors	No
Justification for new course:	Required for IS&T majors. Also required in Minor in Business Analytics and Data Science.
Semesters previously offered as an experimental course Co-Listed Courses:	None.
Course Reviewer	

New Course Proposal

Date Submitted: 12/13/14 7:17 pm

Viewing: IS&T 4450: Introduction to Information Visualization

File: 4157

Last edit: 12/15/14 8:45 am Changes proposed by: barryf

PROPOSED: Minor in Business Analytics and Data Science

Programs

referencing this

course

Requested Fall 2015

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 4450

Title Introduction to Information Visualization

Abbreviated Intro Info Visualization

Course Title

Catalog

Description

Topics include: the visualization development framework, traditional presentations of data, human perception and aesthetics, colorspace theory, visualization algorithms and software, modern visualizations of large data sets. Application of R packages will be emphasized throughout.

Prerequisites

Statistics, Calculus, and Programming Knowledge.

Field Trip

Statement

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

Required for Yes

Majors

In Workflow

1. RINFSCTE Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/14/14 12:11

am

siauk: Approved for RINFSCTE

Chair

2. 12/15/14 8:45 am kleb6b: Approved for CCC Secretary

3. 12/15/14 1:07 pm barryf: Approved for Social Sciences DSCC

Chair

1 of 2 12/19/2014 10:11 AM

Elective for Majors	Yes
Justification for	Paired with IS&T 6450.
new course:	Required for the Minor in Business Analytics and Data Science, but elective otherwise.
Semesters	
previously	
offered as an	
experimental	
course	
Co-Listed	
Courses:	
Course Reviewer	siauk (12/12/14 9:39 pm): Rollback: "Paired with IST 6420" should be "Paired with
Comments	IST 6450"
	v

Date Submitted: 12/12/14 6:32 pm

Viewing: IS&T 5420: Business Introduction to Big Data

Analytics and Data Science

File: 4040.8

Last approved: 04/25/14 3:05 pm

Last edit: 12/15/14 8:45 am Changes proposed by: barryf

Catalog Pages

Business Administration

Information Science and Technology referencing this

course

PROPOSED: Minor in Business Analytics and Data Science

Programs

referencing this

course

Fall 2015 2014 Requested

Effective Change

Date

Department **Business and Information Technology**

Discipline Info Science & Technology (IS&T)

Course Number 5420

Title Business Introduction to Big Data Analytics and Data Science

Abbreviated Bus Intro Big Data Analytics &

Course Title Data Sci

Catalog

Description

Analysis of large business data sets via statistical summaries, cross-tabulation, correlation, and variance matrices. Techniques in model selection, prediction, and validation utilizing general linear and logistic regression, Bayesian methods, clustering, and visualization. Extensive programming in R is expected. 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 Calculus, Statistics, and Programming knowledge. One of Stat 3113, Stat 3115, Stat

In Workflow

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

Approval Path

- 1. 12/12/14 9:39 pm siauk: Approved for RINFSCTE
 - Chair
- 2. 12/15/14 8:45 am kleb6b: Approved
- for CCC Secretary 3. 12/15/14 1:07 pm
 - barryf: Approved

for Social

Sciences DSCC

Chair

History

1. Apr 25, 2014 by barryf

3117, Stat 5643 and one of Math 1212, Math 1215, Math 2222, or equivalents.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes-No

Majors

Elective for

Yes

Majors

Justification for

Title and description changed to reflect current terminology utilized in the area. Prereqs made more clear to reflect graduate students, who don't take S&T UG change:

courses, in general.

Spring 2014

Course is required in the Business Analytics and Data Science Graduate Certificate.

Course is required in the Business Analytics and Data Science Minor.

Otherwise, course is elective.

Semesters

previously

offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

Comments

Key: 4040

2 of 2 12/19/2014 10:11 AM

Date Submitted: 12/12/14 6:32 pm

Viewing: IS&T 5886: Prototyping Human-Computer

Interactions Interaction Prototyping

File: 124.3

Last approved: 04/25/14 3:05 pm

Last edit: 12/15/14 8:46 am Changes proposed by: barryf

Catalog Pages

Business Administration

referencing this

Information Science and Technology

course

Programs

BUS&MS-BS: Business and Mgmt Systems BS
Programs

referencing this

E&S COM-MI: Elect & Social Commerce Minor ENTPRNS-MI: Entrepreneurship Minor

course

INORGPS-MS: Industrial Organizational Psychology MS

IST-BS: Information Science and Tch BS MOBLB&T-MI: Mobile Bus & Tech Minor

Requested

Fall **2015** 2014

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 5886

Title Prototyping Human-Computer Interactions Interaction Prototyping

Abbreviated HCI Prototyping HCI

Course Title

Catalog

Description

This course explores novel HCI covers methods and UX technologies tools for creating low and high fidelity prototypes of IT systems as well as methods and tools for creating system prototypes, design concepts, including best practices and guidelines for optimal user experiences. different form factors (e.g., desktop vs. Example concepts include mobile applications, behavioral monitoring, gamification, natural user interfaces, haptics, and computers as social actors.

In Workflow

1. RINFSCTE Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar 10. Ishelton

11. Peoplesoft

Approval Path

1. 12/12/14 9:40 pm

siauk: Approved for RINFSCTE

Chair

2. 12/15/14 8:46 am

kleb6b: Approved for CCC Secretary

3. 12/15/14 1:07 pm

barryf: Approved

for Social

Sciences DSCC

Chair

History

1. Apr 25, 2014 by lahne (124.1)

mobile).						
Prerequisites	Preceded or	accompanied by	y IS&T 5885.			
Field Trip Statement						
Credit Hours	LEC: 1.5	LAB: 1.5	IND: 0	RSD: 0	Total: 3	
Required for Majors	No					
Elective for Majors	No					
Justification for	Updating co	urse to specify t	he prototyping v	work better.		
change:						
change: Semesters previously offered as an experimental course Co-Listed Courses:						

Date Submitted: 12/12/14 6:33 pm

Viewing: IS&T 6336: Foundations of Internet Computing

IST-MS: Info Science & Tech MS

File: 75.1

Last edit: 12/15/14 8:46 am

Changes proposed by: barryf

Programs

referencing this

course

Requested Fall 2015 2014

Effective Change

Date

Department **Business and Information Technology**

Discipline Info Science & Technology (IS&T)

Course Number 6336

Title **Foundations of Internet Computing**

Abbreviated **Internet Computing**

Course Title

Catalog

Description

The foundations of Internet Computing include computer networks and Web sites. Networks are covered thoroughly and research directions for networking and information security networks are discussed. Web site design and research findings about site usability considerations are examined. Security of communications for computing, especially wireless communications, are explored.

Prerequisites

IS&T MS entrance requirements, including solid programming knowledge.

Field Trip

Statement

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

Required for No

Majors

Elective for No In Workflow

1. RINFSCTE Chair

2. CCC Secretary

3. Social Sciences

DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

1. 12/12/14 9:40 pm siauk: Approved

for RINFSCTE

Chair

2. 12/15/14 8:46 am

kleb6b: Approved for CCC Secretary

3. 12/15/14 1:08 pm

barryf: Approved

for Social

Sciences DSCC

Chair

12/19/2014 10:13 AM 1 of 2

Majors	
Justification for change:	Shortened course description and clarified part.
Semesters	
previously	
offered as an	
experimental	
course	
Co-Listed	
Courses:	
Course Reviewer	
Comments	

New Course Proposal

Date Submitted: 12/13/14 7:18 pm

Viewing: IS&T 6450: Information Visualization

File: 4132

Last edit: 12/13/14 7:18 pm Changes proposed by: barryf

Requested Fall 2015

Effective Change

Date

Department Business and Information Technology

Discipline Info Science & Technology (IS&T)

Course Number 6450

Title Information Visualization

Abbreviated Info Visualization

Course Title

Catalog

Description

Topics/activities include: the visualization development framework, traditional presentations of data, human perception and aesthetics, colorspace theory, visualization algorithms and software, case studies of modern topology, research into visualization algorithms and implementations in R. Students will produce significant programs and visualizations.

Prerequisites

Statistics, Calculus, and Programming Knowledge.

Field Trip Statement

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

Total: 3

Required for Yes

Majors

Elective for Yes

Majors

In Workflow

1. RINFSCTE Chair

2. CCC Secretary

3. Social Sciences
DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair 9. Registrar 10. Ishelton

11. Peoplesoft

Approval Path

1. 12/14/14 12:12

am

siauk: Approved for RINFSCTE Chair

2. 12/15/14 8:46 am kleb6b: Approved for CCC Secretary

3. 12/15/14 1:08 pm barryf: Approved for Social Sciences DSCC

Chair

1 of 2 12/19/2014 10:14 AM

Justification for

Is being made a required course in the Business Analytics and Data Science Graduate

new course: Certificate

Elective for majors in general.

Paired course IS&T 4450-Introduction to Information Visualization is also being

created.

Semesters

Fall 2014.

previously offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

siauk (12/12/14 9:40 pm): Rollback: "Paired course IS&T 4420—Introduction to

Comments Information Visualization and Analytics" should be "Paired course IS&T

4450—Introduction to Information Visualization"

Key: 4132

New Course Proposal

Date Submitted: 11/18/14 1:43 pm

Viewing: NUC ENG 4350: Introduction to Nuclear Medical

Science

File: 4147

Last edit: 11/18/14 2:34 pm Changes proposed by: leehk

Requested Sp

Spring 2015

Effective Change

Date

Department Mining & Nuclear Engineering

Discipline Nuclear Engineering (NUC ENG)

Course Number 4350

Title Introduction to Nuclear Medical Science

Abbreviated Intro. Nucl. Medial Sci.

Course Title

Catalog

Description

Introduction to physics and technologies involved in various radiological imaging and treatment systems in the medical field, such as digital radiography, digital mammography, computed tomography and nuclear medicine instruments will be covered.

Prerequisites

Nuc Eng 4312 or equivalent.

Field Trip Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

In Workflow

1. RMINNUCL Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

 1. 11/18/14 2:24 pm frimpong: Approved for RMINNUCL Chair

2. 11/18/14 2:34 pm kleb6b: Approved for CCC Secretary

3. 12/05/14 9:17 am sraper: Approved for Engineering DSCC Chair

1 of 2 12/19/2014 10:16 AM

Justification for This course has been offered three times as experimental course for graduate

new course: students. The level of the course is also suitable for senior undergraduate students.

This course should be co-listed together with NE 5350.

Semesters SP 2010, FS 2011 and SP 2014

previously offered as an experimental

course

Co-Listed NUC ENG 5350 - Advanced Nuclear Medical Science

Courses:

Course Reviewer

Comments

Key: 4147

New Course Proposal

Date Submitted: 11/18/14 2:44 pm

Viewing: NUC ENG 5350: Advanced Nuclear Medical Science

File: 4148

Last edit: 11/21/14 8:39 am Changes proposed by: kleb6b

Requested Spring 2015

Effective Change

Date

Department Mining & Nuclear Engineering

Discipline Nuclear Engineering (NUC ENG)

Course Number 5350

Title Advanced Nuclear Medical Science

Abbreviated Adv Nuclear Medical Sci

Course Title

Catalog

Description

Advanced level of technologies involved in medical modalities, such as digital radiography, digital mammography, modern computed tomography, gamma camera, SPECT and PET will be covered.

Prerequisites

Nuc Eng 4312 or equivalent.

Field Trip Statement

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

Total: 3

Required for No

Majors

Elective for Yes

Majors

Justification for This course was successfully offered three mes and needs to be offered regularly.

new course: In addi on, as the course is useful for first-level graduate students or senior level

3

In Workflow

1. RMINNUCL Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate

Chair

9. Registrar

10. Ishelton

11. Peoplesoft

Approval Path

 1. 11/18/14 2:45 pm frimpong:
 Approved for

RMINNUCL Chair

2. 11/18/14 2:49 pm kleb6b: Approved for CCC Secretary

3. 12/05/14 9:17 am sraper: Approved

for Engineering

DSCC Chair

1 of 2 12/19/2014 10:18 AM

undergraduate students, both NE 4350 and NE 5350 should be offered as dual-listed

Semesters

SP 2010, FS 2011, SP 2014

previously offered as an experimental

course

Co-Listed

Courses:

Course Reviewer

sraper (11/21/14 8:39 am): Revised course description provided by Hyoung-Koo Lee

Comments via email.

Key: 4148

New Experimental Course Proposal

Date Submitted: 12/05/14 1:42 pm

Viewing: AERO ENG 2001.TBD: Introduction to Spacecraft

Design

File: 4162

Last edit: 12/05/14 2:08 pm Changes proposed by: nisbett

Requested

Spring 2015

Effective Change

Date

Department

Mechanical & Aerospace Engineering

Discipline

Aerospace Engineering (AERO ENG)

Course Number

2001

Topic ID

TBD

Experimental

Introduction to Spacecraft Design

Title

Experimental

Intro Spacecraft Design

Abbreviated

Course Title

Instructors Dr. Hank Pernicka

Experimental

Catalog

Description

Introduction to basics of spacecraft design, including design requirements,

subsystem definition, and vehicle design synthesis. Lab work includes design and fabrication of a small spacecraft payload that is flight tested on a high altitude balloon to 100,000 feet. Post-flight data reduction and analysis are performed.

Prerequisites Aero Eng 2861.

Field Trip

Statement

Credit Hours

LEC: 1

LAB: 1

IND: 0

RSD: 0

Total: 2

Justification for

This is to provide a design course at the sophomore level for students interested in

new course:

spacecraft design.

In Workflow

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

Approval Path

1. 12/05/14 2:04 pm

drallmei:

Approved for

RMECHENG Chair

2. 12/05/14 2:08 pm

kleb6b: Approved

for CCC Secretary

3. 12/15/14 4:27 pm sraper: Approved

for Engineering

DSCC Chair

Semester(s) previously taught	None			
Co-Listed Courses:				
Course Reviewer Comments				

New Experimental Course Proposal

Date Submitted: 12/05/14 7:41 am

Viewing: CHEM ENG 4001.TBD: Bioprocess Safety

File: 4158

Last edit: 12/05/14 7:41 am Changes proposed by: kleb6b

Requested

Spring 2015

Effective Change

Date

Department

Chemical and Biochemical Engineering

Discipline

Chemical Engineering (CHEM ENG)

Course Number

4001

Topic ID

TBD

Experimental

Bioprocess Safety

Title

Experimental

Bioprocess Safety

Abbreviated

Course Title

Instructors Dr. Daniel Forciniti

Experimental

Catalog

Description

This course covers risk assessment, biohazard containment and inactivation practices, and other-biosafety issues relevant to industrial bioprocessing.

Considerations relating to the release of genetically modified organisms are also

discussed.

Prerequisites

Preceded or accompanied by Chem Eng 4210 or graduate level standing.

Field Trip

Statement

Credit Hours

LEC: 1

LAB: 0

IND: 0

RSD: 0

Total: 1

Justification for

We are offering a new biosafety class because our Biochemical Engineering Emphasis

new course: Program does not include a chemical safety class. Therefore, students in the

emphasis program learn pieces of process safety in other classes but to fully comply

In Workflow

1. RCHEMENG Chair

2. CCC Secretary

3. Engineering DSCC Chair

4. Pending CCC
Agenda post

5. CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. Registrar

Approval Path

1. 12/05/14 9:10 am

aldahhanm:

Approved for

RCHEMENG Chair

2. 12/05/14 9:10 am

kleb6b: Approved

for CCC Secretary

3. 12/05/14 9:18 am sraper: Approved

for Engineering

DSCC Chair

with ABET requirements we need them to take a dedicated safety class.
Semester(s) previously taught
Co-Listed Courses:
Course Reviewer Comments

New Experimental Course Proposal

Date Submitted: 11/18/14 2:33 pm

Viewing: POL SCI 3001.TBD: Politics of the Middle East

File: 4092

Last edit: 11/18/14 5:49 pm Changes proposed by: rlc

Requested

Spring 2015

Effective Change

Date

Department

History and Political Science

Discipline

Political Science (POL SCI)

Course Number

3001

Topic ID

TBD

Experimental

Politics of the Middle East

Title

Experimental

Middle East Politics

Abbreviated

Course Title

Instructors Dr. Tseggai Isaac

Experimental

Catalog

Description

Explores the significant events that have framed modern political realities in the Middle East, beginning with the end of the Ottoman Empire in the First World War and then exploring the colonial experiences of the Middle Eastern people under British and French rule and the post-colonial geostrategic alignments and the creation of the state of Israel.

Prerequisites

Political Science 1200, 2400, 2500 or Hist 1310.

Field Trip

Statement

Credit Hours

LEC: 3.0

LAB: 0

IND: 0

RSD: 0

Total: 3.0

Justification for

Broaden the department curriculum.

new course:

In Workflow

1. RHISTORY Chair

2. CCC Secretary

3. Arts &

Humanities DSCC

Chair

4. Pending CCC

Agenda post

5. CCC Meeting

Agenda

6. Campus Curricula Committee Chair

7. Registrar

Approval Path

1. 11/18/14 4:13 pm lgragg: Approved for RHISTORY

Chair

2. 11/18/14 4:22 pm kleb6b: Approved

for CCC Secretary

3. 11/18/14 5:49 pm

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

1 of 2 12/19/2014 8:15 AM

Semester(s) Spring 2013

previously taught

previously taugili

Co-Listed Courses:

Course Reviewer

kleb6b (06/12/14 10:47 am): Rollback: 4 Digit Number

Comments kleb6b (11/18/14 1:54 pm): Rollback: Abbreviated Course Title and shorten

Description

ivliyeva (11/18/14 5:49 pm): I am not sure if we need to approve this form if the

previous EC was good for 5 years, but just in case, let's consider approving.

Key: 4092

New Experimental Course Proposal

Date Submitted: 12/13/14 8:16 am

Viewing: RUSSIAN 5001.TBD: Advanced Scientific Russian

File: 4169

Last edit: 12/15/14 10:56 am Changes proposed by: ivliyeva

Requested

Fall 2015

Effective Change

Date

Department

Arts, Languages, & Philosophy

Discipline

Russian (RUSSIAN)

Course Number

5001

Topic ID

TBD

Experimental

Advanced Scientific Russian

Title

Experimental

Adv. Scientific Russian

Abbreviated

Course Title

Instructors Irina Ivliyeva

Experimental

Catalog

Description

Reading and discussion of advanced scientific texts. Emphasis on Russian grammar, syntax, and pronunciation (advanced level). Focus on principles of scientific texts' analysis and synthesis. Final project. This course is designed to give the department an opportunity to test a new course with senior/graduate level emphasis.

Prerequisites

Undergraduate senior or graduate level. Consent of instructor required.

Field Trip

Statement

Credit Hours

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

Correlates with the 3001 "Scientific Russian" which will be offered in the Fall 2015.

new course:

This course will allow graduating seniors or graduate students to complete the

Russian Minor.

In Workflow

1. RPHILOSO Chair

2. CCC Secretary

3. Arts &

Humanities DSCC

Chair

4. Pending CCC

Agenda post

5. CCC Meeting

Agenda

Campus Curricula Committee Chair

7. Registrar

Approval Path

1. 12/13/14 10:16

am

lance: Approved for RPHILOSO

Chair

2. 12/15/14 8:47 am kleb6b: Approved for CCC Secretary

3. 12/15/14 10:56

am

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

1 of 2 12/19/2014 8:16 AM

Semester(s)	None
previously taught	
Co-Listed	
Courses:	
Course Reviewer	
Comments	