

# Missouri University of Science and Technology

Formerly University of Missouri-Rolla

### Campus Curricula Committee Meeting Agenda April 2, 2014 10:00 am, Room 106B Parker Hall

#### **Review of submitted Degree Change forms:**

File #153.1 Computer Engineering: Computer Engineering BS File #142.1 Mathematics: Applied Mathematics BS

#### **Review of submitted Course Change forms:**

File #107.1	Biological Sciences 112/1219: General Biology Lab
File #1712.1	Biological Sciences 2372: Issues in Public Health
File #2278.1	Biological Sciences388/3483: Biomedical Problems
File #402.1	Computer Engineering 214: Digital Engineering Lab II
File #413.1	Computer Engineering 342: Real-Time Digital Signal Processing
File #414.1	Computer Engineering 345: Digital Image Processing
File #1981.1	Computer Engineering 347: Machine Vision
File #419.1	Computer Engineering 391: Computer Engineering Senior Project I
File #420.1	Computer Engineering 392: Computer Engineering Senior Project II
File #438.1	Computer Science 128: Discrete Mathematics for Computer Science
File #596.1	Electrical Engineering 391: Electrical Engineering Senior Project I
File #597.1	Electrical Engineering 392: Electrical Engineering Senior Project II
File #1176.1	Mining Engineering 343: Coal Mine Development and Production
File #1657.1	Mining Engineering 404: Advanced Mining Systems
File #1187.1	Mining Engineering 409: Mining Property Feasibility Studies and Evaluation Procedure

#### **Review of submitted Experimental Course forms:**

File #4046	Art 4320: French and Francophone Cinema
File #4047	Economics 345/4643: Ethical Problems in a Global Environment
File #4048	Economics 5643: Advanced Ethical Problems in a Global Environment
File #4055	Philosophy 101: Introduction to Ethics

#### **Experimental Course Policy Review**

#### **Bachelor of Science Requirements**

Office of the Registrar • 103 Parker Hall • 300 West 13<sup>th</sup> Street • Rolla, MO 65409-0930 Phone: 573-341-4181 • Fax: 573-341-4362 • Email: registrar@mst.edu • Web: http://registrar.mst.edu

### **Program Change Request**

Date Submitted: 01/29/14 6:10 pm

**Viewing: CP ENG-BS: Computer Engineering** 

BS

File: 153.1

Last edit: 02/10/14 12:38 pm

Changes proposed by: stanleyj

**Catalog Pages** 

Using this

Program

Computer Engineering

#### In Workflow

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

Start Term Spring 2014

Program Code CP ENG-BS

Department Electrical and Computer Engineering

Title

### **Approval Path**

- 01/30/14 9:58 am kte: Approved for RELECENG Chair
- 02/04/14 8:27 am kleb6b: Approved for CCC Secretary
- 02/10/14 12:38 pm sraper: Approved for Engineering DSCC Chair

Computer Engineering BS

### **Program Requirements and Description**

# **Bachelor of Science Computer Engineering**<sup>1</sup>

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

For the Bachelor of Science degree in Computer Engineering a minimum of 128 credit hours is required. These requirements are in

addition to credit received for algebra, trigonometry, and basic ROTC courses. An average of at least two grade points per credit hour must be attained. At least two grade points per credit hour must also be attained in all courses taken in Computer Engineering.

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

- 1. All students are required to take one American history course, one economics course, one humanities course, and . The history course is to be selected from HISTORY 112, HISTORY 175, HISTORY 176, or Poly Sci 90.—The economics course may be either Econ 121 or ECON 122. The humanities course must be selected from the approved lists for art, English, foreign languages, music, philosophy, speech and media studies, or theater.
- 2. Depth requirement. Three credit hours must be taken in humanities or social sciences at the 100 level or above and must be selected from the approved list. This course must have as a prerequisite one of the humanities or social sciences courses already taken. Foreign language courses numbered 70 or 80 will be considered to satisfy this requirement. Students may receive humanities credit for foreign language courses in their native tongue only if the course is at the 300 level. All courses taken to satisfy the depth requirement must be taken after graduating from high school.
- 3. The remaining two courses are to be chosen from the list of approved humanities/social sciences courses and may include one communications course in addition to ENGLISH 20.
- 4. Any specific departmental requirements in the general studies area must be satisfied.
- 5. Special topics and special problems and honors seminars are allowed only by petition to and approval by the student's department chairman.

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

#### **Free Electives Footnote:**

Each student is required to take five 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 10 <sup>2</sup>	1	IDE 20	3
MATH 14 <sup>3</sup>	4	MATH 15 <sup>3</sup>	4
CHEM 1	4	PHYSICS 23 <sup>3,4</sup>	4
CHEM 2	1	ECON 121 or ECON 122	3
HISTORY 112, or HISTORY 175, or HISTORY 176, or POL SCI 90	3	Elective-Hum or Soc (any level) <sup>5</sup>	3
ENGLISH 20	3		
	16		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
ELEC ENG 151 <sup>3,6,7</sup>	3	COMP ENG 111 3,6,8	3

ELEC ENG 152 <sup>3,6</sup>	1	COMP ENG 112 <sup>3,6</sup>	1
MATH 22 <sup>3</sup>	4	ELEC ENG 153 <sup>3,7,9</sup>	3
COMP SCI 53 <sup>3</sup>	3	MATH 204 <sup>3</sup>	3
COMP SCI 54 <sup>3</sup>	1	COMP SCI 153 <sup>3</sup>	3
PHYSICS 24 <sup>3,4</sup>	4	COMP SCI 128 <sup>3</sup>	3
	16		16
Junior Year			
First Semester	Credits	Second Semester	Credits
COMP ENG 213 <sup>3,6,8</sup>	3	COMP ENG Elective A <sup>3,14</sup>	3
COMP ENG 214 <sup>3,6,8</sup>	1	ELEC ENG 215 <sup>3,6,9</sup>	3
COMP ENG 215 <sup>3,8</sup>	3	ELEC ENG 216 3,6,9	4
ELEC ENG 121 <sup>3,6,7</sup>	3	COMP SCI 284 <sup>3</sup>	3
ELEC ENG 122 <sup>3,6,7</sup>	1	STAT 217 <sup>12</sup>	3
Mathematics Elective <sup>10</sup>	3	ENGLISH 160 <sup>13</sup>	3
SP&M S 85	3		
	17		15
Senior Year			
First Semester	Credits	Second Semester	Credits
COMP ENG 319 or COMP SCI 365 <sup>3</sup>	3	COMP ENG Elective D <sup>3,15,16</sup>	3
COMP ENG Elective C <sup>3,15,16</sup>	3	COMP ENG Elective E <sup>3,15,16</sup>	3
COMP ENG 391 <sup>3,17</sup>	1	COMP ENG 392 <sup>3,17</sup>	3
Elective-Hum or Soc (any level) <sup>5</sup>	3	Elective-Hum or Soc (upper level) <sup>5</sup>	3
Free Elective 18	2	Free Elective <sup>18</sup>	3
Engineering Science Elective <sup>11</sup>	3		
COMP ENG Elective B	3		
	16		15
Total Credits: 128			

Notes: Student must satisfy the common engineering freshman year requirements and be admitted into the department.

The minimum number of hours required for a degree in Computer Engineering is 128.

Students that transfer to Missouri S&T after their freshman year are not required to enroll in Freshman Engineering Seminars.

A minimum grade of "C" must be attained in MATH 14, MATH 15, MATH 22, and MATH 204, PHYSICS 23 and PHYSICS 24 (or their equivalents), COMP SCI 53, COMP SCI 54, COMP SCI 153, COMP SCI 158, and COMP SCI 284, COMP ENG 111, COMP ENG 112, COMP ENG 213, COMP ENG 214, COMP ENG 215, COMP ENG 319, COMP ENG 365, COMP ENG 391, and COMP ENG 392, and ELEC ENG 151, ELEC ENG 152, ELEC ENG 153, ELEC ENG 121, ELEC ENG 122, ELEC ENG 215, and ELEC ENG 216, and the COMP ENG

electives A, B, C, and D. Also, students may not enroll in other courses that use these courses as prerequisites until the minimum grade of "C" is attained.

Comp Sci 365 will be renumbered as Comp Sci 4600 and Comp Sci 5600. Only Comp Sci 5600 can be taken in place of Comp Eng 319.

- Students may take PHYSICS 21 and PHYSICS 22 or PHYSICS 21 and PHYSICS 27 in place of PHYSICS 23.

  Students may take PHYSICS 25 and PHYSICS 26 or PHYSICS 25 and PHYSICS 28 in place of PHYSICS 24.
- All electives must be approved by the student's advisor. Students must comply with the general education requirements with respect to selection and depth of study. These requirements are specified in the current catalog.
- Students who drop a lecture prior to the last week to drop a class must also drop the corequisite lab.
- Students must earn a passing grade on the ELEC ENG Advancement Exam I (associated with ELEC ENG 151) before they enroll in ELEC ENG 153 or ELEC ENG 121 and ELEC ENG 122.
- Students must earn a passing grade on the COMP ENG Advancement Exam (associated with COMP ENG 111) before they enroll in any course with COMP ENG 111 and COMP ENG 112 as prerequisites.
- Students must earn a passing grade on the ELEC ENG Advancement Exam II (associated with ELEC ENG 153) before they enroll in ELEC ENG 215 and ELEC ENG 216.
- Students must take one of the following courses

Math 203, Math 208, Math 209, Math 302, Math 303, Math 305, Math 306, Math 307, Math 308, Math 309, Math 311, Math 315, Math 322, Math 325, Math 330, Math 337, Math 351, Math 354, Math 361, Math 383, Math 385, Stat 344, Stat 346, Stat 353.

- Students must take IDE 140, MECH ENG 219, MECH ENG 227, PHYSICS 207, PHYSICS 208, CHEM 221, BIO SCI 211, or BIO SCI 231. The following pairs of course are substitutions for any single course: CIV ENG 50 and IDE 150, PHYSICS 107 and PHYSICS 311, PHYSICS 107 and CER ENG 284, PHYSICS 107 and NUC ENG 205, or ENG MGT 211 and ENG MGT 282.
- Students may replace STAT 217 with STAT 215 or STAT 343.
- 13 Students may replace ENGLISH 160 with ENGLISH 60.
- Cp Eng Elective A must be a 4xxx or 5xxx-level Cp Eng, El Eng, or Cmp Sc course with at least a 3-hour lecture component. This normally includes all Cp Eng and El Eng 4xxx or 5xxx-level courses except Cp Eng or El Eng 300, 390, 391, and 392 or Cmp Sc 300, 310, 365 (5600 only), and 390.

  Delete Elec Eng 38x exception.

- Cp Eng Electives B, C, and D must be 3xxx, 4xxx or 5xxx-level courses from an approved list of science, mathematics, and engineering courses. In particular, this list includes all 3xxx, 4xxx or 5xxx-level Cp Eng, El Eng and Cmp Sc courses except required courses in Cp Eng, El Eng, and Cmp Sc and except Cp Eng 391 and 392, El Eng 281, 282, 283, 391, and 392, and Cmp Sc 202 and 365 (4600 and 5600). Cp Eng Electives B, C, and D must include at least six hours of engineering or computer science courses.

  Delete Cmp Sc 202 from this list. Cmp Sc 202 is not given in the Cmp Sc crosswalk table.
- COMP ENG Electives B, C, and D cannot include more than three hours of COMP ENG 300, COMP ENG 390, ELEC ENG 300, or ELEC ENG 390.
- Students pursuing dual degrees in COMP ENG and ELEC ENG may take either <u>COMP ENG 391</u> or <u>ELEC ENG 391</u> and <u>COMP ENG 392</u> or <u>ELEC ENG 392</u>. Students may not receive credit for both <u>COMP ENG 391</u> and <u>ELEC ENG 391</u> or <u>COMP ENG 392</u> and <u>ELEC ENG 392</u> in the same degree program.
- Students are required to take at least three credit hours. Elec Eng 28xx, <u>ELEC ENG 391</u>, <u>ELEC ENG 392</u>, <u>COMP ENG 391</u> and <u>COMP ENG 392</u> may not be used for free electives. No more than once credit hour of <u>COMP ENG 202</u> or <u>ELEC ENG 202</u> may be applied to the BS degree for free electives. Change Elec Eng 28x to Elec Eng 28xx. Delete Cp Eng 28x because these courses will not exist in the renumbered courses.

#### **Emphasis Areas for Computer Engineering**

**Note:** The following emphasis areas identify courses from which a student may opt to develop a specific emphasis. It is not required that students obtain an emphasis specialty within computer engineering. Computers and

#### **Architecture and Embedded Systems**

Highly Recommended		
COMP ENG 312	Course COMP ENG 312 Not Found	3
COMP ENG 313	Course COMP ENG 313 Not Found	3
COMP ENG 314	Course COMP ENG 314 Not Found	3
COMP ENG 315	Course COMP ENG 315 Not Found	3
COMP ENG 331	Course COMP ENG 331 Not Found	3
Suggested		
COMP ENG 316	Course COMP ENG 316 Not Found	3
COMP ENG 342	Real-Time Digital Signal Processing	3
ELEC ENG 231	Course ELEC ENG 231 Not Found	3
ELEC ENG 253	Course ELEC ENG 253 Not Found	3
COMP SCI 206	Course COMP SCI 206 Not Found	3

### Integrated Circuits and Logic Design Embedded Computer Systems

Highly Recommended		
COMP ENG 312	Course COMP ENG 312 Not Found	3
COMP ENG 314	Course COMP ENG 314 Not Found	3

COMP ENG 331	Course COMP ENG 331 Not Found	3
Suggested		
COMP ENG 342	Real-Time Digital Signal Processing	3
ELEC ENG 231	Course ELEC ENG 231 Not Found	3
ELEC ENG 253	Course ELEC ENG 253 Not Found	3
COMP SCI 206	Course COMP SCI 206 Not Found	3
Highly Recommended		
COMP ENG 311	Course COMP ENG 311 Not Found	3
COMP ENG 318	Course COMP ENG 318 Not Found	3
Suggested		
ELEC ENG 253	Course ELEC ENG 253 Not Found	3
COMP ENG 312	Course COMP ENG 312 Not Found	3
COMP ENG 313	Course COMP ENG 313 Not Found	3
COMP ENG 315	Course COMP ENG 315 Not Found	3
COMP ENG 316	Course COMP ENG 316 Not Found	3
COMP ENG 317	Course COMP ENG 317 Not Found	3
COMP ENG 355	Course COMP ENG 355 Not Found	

# **Computational Intelligence**

Highly Recommended		
COMP ENG 345	Digital Image Processing	3
COMP ENG 347	Machine Vision	3
COMP ENG 358	Course COMP ENG 358 Not Found	3
ELEC ENG 368	Course ELEC ENG 368 Not Found	3
Suggested		
ELEC ENG 338	Course ELEC ENG 338 Not Found	3

# **Networking and Software Engineering**

Highly Recommended		
COMP ENG 319	Course COMP ENG 319 Not Found	3
or COMP SCI 365	Course COMP SCI 365 Not Found	
COMP ENG 345	Digital Image Processing	3
COMP ENG 347	Machine Vision	3
COMP ENG 348	Course COMP ENG 348 Not Found	3
COMP ENG 348  COMP ENG 349	Course COMP ENG 348 Not Found  Course COMP ENG 349 Not Found	3

COMP ENG 317	Course COMP ENG 317 Not Found	3
COMP SCI 206	Course COMP SCI 206 Not Found	3
COMP SCI 307	Course COMP SCI 307 Not Found	3
IS&T 241	Course IS&T 241 Not Found	3

### **Security and Reliability**

Highly Recommended		
COMP ENG 317	Course COMP ENG 317 Not Found	3
COMP ENG 319	Course COMP ENG 319 Not Found	3
or COMP SCI 365	Course COMP SCI 365 Not Found	
COMP ENG 349	Course COMP ENG 349 Not Found	3
Suggested		
COMP ENG 358	Course COMP ENG 358 Not Found	3

#### Justification for

#### request

This course list broadens the topic areas of mathematics and statistics courses that can be taken as the mathematics elective and meets the calculus II prerequisite requirement. The current mathematics elective requirement was too inclusive of mathematics courses that did not necessarily meet the calculus II prerequisite requirement. Please see "DC change - COMP ENG.pdf" for the originally submitted DC form.

Please see "New Cp Eng Elective and BCD Elective Renaming.pdf" for the details and justification to add a Cp Eng 3xx elective course in the Cp Eng BS degree program.

The justification for changes to requirements 14, 15 and 18 are to update the course requirements based on the course renumbering.

Please see the attached document "DC Change - COMP ENG emphasis areas.pdf" for the changes in the Computer Engineering Emphasis Areas. Please note that Cmp CS 355 - Analysis of Algorithms was added to the Suggested course list for the Computational Intelligence Emphasis Area in the attached DC form, but was not added to Suggest course list for the online DC form because Cmp Sc 355 does not exist in the Computer Science course list.

Supporting

**Documents** 

DC Change - COMP ENG emphasis areas.pdf

DC change - COMP ENG.pdf

New Cp Eng Elective and BCD Elective Renaming.pdf

Course Reviewer

Comments

lahne (01/29/14 2:58 pm): Rollback: departmental request

Key: 153

### **Program Change Request**

Date Submitted: 09/25/13 10:27 am

**Viewing: AP MATH-BS : Applied Mathematics** 

BS

File: 142.1

Last edit: 01/29/14 4:58 pm

Changes proposed by: imorgan

**Catalog Pages** 

Using this

Program

**Mathematics** 

Start Term Fall 2014

Program Code AP MATH-BS

Department Mathematics & Statistics

Title

Applied Mathematics BS

#### In Workflow

- 1. RMATHEMA Chair
- 2. CCC Secretary
- 3. Sciences DSCC Chair
- 4. CCC Meeting Agenda
- Campus Curricula Committee Chair
- 6. FS Meeting Agenda
- Faculty Senate Chair
- 8. Registrar
- 9. Peoplesoft

### **Approval Path**

- 09/25/13 10:34 am sclark: Approved for RMATHEMA Chair
- 2. 09/25/13 11:25 am lahne: Approved for CCC Secretary
- 03/06/14 7:15 pm tauritzd: Approved for Sciences DSCC Chair

### **Program Requirements and Description**

# **Bachelor of Science Applied Mathematics**

A minimum of 132 credit hours is required for a Bachelor of Science degree in Applied Mathematics. A minimum grade of "C" is required by the department in each course counted toward the Math/Stat requirement for the B.S. in Applied Mathematics. Moreover, the department requires that an average of at least two grade points per credit hour must be obtained for all courses taken within the department. These requirements for the B.S. degree are in addition to credit received for algebra, trigonometry, and basic ROTC.

The Applied Mathematics curriculum requires fifteen semester hours of technical electives, except where this requirement is reduced electives in addition to compensate for extra requirements of emphasis areas, in addition to basic courses in

chemistry or biology, physics, computer science, and economics. Two semesters of a foreign language, ENGLISH 60 or ENGLISH 160, and either HISTORY 175, HISTORY 176, HISTORY 112, or POL SCI 90 are also required. Specific requirements for the bachelor's degree are outlined in the sample program below.

First Semester	Credits	Second Semester	Credits
MATH 1	1	MATH 21 1	5
MATH 8 <sup>1</sup>	5	Science Requirement <sup>5</sup>	5
CHEM 4	1	COMP SCI 53, or COMP SCI 73 and COMP SCI 77, or COMP SCI 74 and COMP SCI 78	3
ENGLISH 20	3	Foreign Language Requirement <sup>3</sup>	4
Campus History Requirement <sup>2</sup>	3	Basic ROTC (if elected) <sup>4</sup>	0
Foreign Language Requirement <sup>3</sup>	4		
Basic ROTC (if elected) <sup>4</sup>	0		
	17		17
Sophomore Year			
First Semester	Credits	Second Semester	Credits
MATH 22 <sup>1</sup>	4	MATH 204 <sup>1</sup>	3
MATH 208 <sup>1</sup>	3	MATH 209 <sup>1</sup>	3
Statistics Requirement <sup>1,6,7</sup>	3	ECON 121 or ECON 122	3
PHYSICS 21	4	PHYSICS 25	4
PHYSICS 22	1	PHYSICS 26	1
ENGLISH 60	3	COMP SCI Requirement <sup>7,8</sup>	3
Basic ROTC (if elected) <sup>4</sup>	0	Basic ROTC (if elected) <sup>4</sup>	0
	18		17
Junior Year			
First Semester	Credits	Second Semester	Credits
MATH 309 <sup>1</sup>	3	MATH 311 <sup>1</sup>	3
Literature	3	Literature	3
Electives-Math or Stat <sup>1,7,9</sup>	3	Electives-Math or Stat <sup>1,7,9</sup>	3
Electives-Technical <sup>10</sup>	3	Electives-Technical <sup>10</sup>	3
Electives	3	Electives	3
	15		15
Senior Year			
First Semester	Credits	Second Semester	Credits

MATH 371 1,11	1	Electives-Math or Stat 1,7,9	3
Electives-Math or Stat <sup>1,7,9</sup>	3	Electives-Technical <sup>10</sup>	3
Electives-Technical <sup>10</sup>	6	Electives	9
Electives	6		
	17		16
Total Credits: 132			

A minimum grade of "C" is required by the department in each course counted toward the Math/Stat requirement for the B.S. in Applied Mathematics. Moreover, the department requires that an average of at least two grade points per credit hour must be obtained for all courses taken within the department. 2 May be met by HISTORY 112, HISTORY 175, HISTORY 176, or POL SCI 90. 3 A modern language approved by the advisor (six hours credit is acceptable from transfer students.) Requirement may be met by examination or, with approval of the department, by three years of a foreign language in high school. Basic ROTC may be elected in the freshman and sophomore years, but is not creditable toward a degree. Up to six credit hours of advanced ROTC may be credited as free electives towards a degree. May be met by CHEM 1 and CHEM 2 or by BIO SCI 110 and BIO SCI 112. 6 May be met by STAT 215, STAT 217, or STAT 343. 7 No course may be used to satisfy more than one degree requirement. 8 May be met by COMP SCI 153, COMP SCI 128 or COMP SCI 228. The student must choose two from the following five groups and then complete six hours in each of the chosen groups 1. MATH 305, MATH 306, MATH 307, MATH 308 MATH 315, MATH 330 or MATH 5530, MATH 351, MATH 385 MATH 305 MATH 302 , MATH 303 , MATH 322 , MATH 325 , MATH 351 , MATH 383 4. STAT 314, STAT 343, STAT 344, STAT 346, STAT 353, STAT 355, STAT 356 5. COMP SCI 228, COMP SCI 328, COMP SCI 329, STAT 314, STAT 346, STAT 355, STAT 356, MATH 303, MATH 337. Courses in chemistry, physics, mechanics, geology, computer science, economics or engineering approved by advisor. The general math curriculum requires 15 credit hours; actuarial science emphasis area, 9 credit hours; algebra/discrete math, 12 credit hours; computational math, 9 credit hours; statistics, 12 credit hours. 11 The three courses MATH 361, MATH 371, and MATH 381 constitute the Capstone experience for mathematics majors. 12 COMP SCI 53 if not transferred in will require COMP SCI 54, requiring one extra credit hour which will count either towards technical electives or free electives.

# **Emphasis Areas at the Bachelor of Science Level** 12

# Actuarial Science Emphasis Area<sup>12</sup>

Required courses:

STAT 343	Course STAT 343 Not Found	3
STAT 344	Course STAT 344 Not Found	3
ECON 121	Course ECON 121 Not Found	3
ECON 122	Course ECON 122 Not Found	3

ECON 222	Course ECON 222 Not Found	3
MATH 337	Course MATH 337 Not Found	3
And six hours from:		6
STAT 314	Course STAT 314 Not Found	
STAT 346	Course STAT 346 Not Found	
STAT 353	Course STAT 353 Not Found	
STAT 355	Course STAT 355 Not Found	
STAT 356	Course STAT 356 Not Found	

In addition, the student must pass the first Actuarial Science Exam.

# Algebra/Discrete Mathematics Emphasis Area 12

Required courses:

MATH 305	Course MATH 305 Not Found	3
MATH 306	Course MATH 306 Not Found	3
or MATH 405	Course MATH 405 Not Found	
MATH 307	Course MATH 307 Not Found	3
MATH 308	Course MATH 308 Not Found	3
STAT 343	Course STAT 343 Not Found	3
Select one of the following:		3
STAT 344	Course STAT 344 Not Found	
COMP SCI 220	Course COMP SCI 220 Not Found	
COMP SCI 228	Introduction To Numerical Methods	
COMP COL 220		
COMP SCI 330	Course COMP SCI 330 Not Found	

# **Computational Mathematics Emphasis Area** 12

#### Required courses:

STAT 353	Course STAT 353 Not Found	3
STAT 346	Course STAT 346 Not Found	3
COMP SCI 228	Introduction To Numerical Methods	3
Select two of the following:		
MATH 302	Course MATH 302 Not Found	
MATH 303	Course MATH 303 Not Found	
MATH 325	Course MATH 325 Not Found	
Select one of the following:		3

COMP SCI 328	Course COMP SCI 328 Not Found	
COMP SCI 329	Course COMP SCI 329 Not Found	
MECH ENG 307	Course MECH ENG 307 Not Found	

# Applied Analysis Emphasis Area<sup>12</sup>

#### Required:

COMP SCI 228	Introduction To Numerical Methods	3
and two of groups 3, 4, and 5 under Ma	thematics of Statistics electives must be satisfied.	
and choose Technical Electives and Fre	ee Electives to satisfy one of the following two options:	

# **Engineering Option (A)**

Required courses:

CIV ENG 50	Course CIV ENG 50 Not Found
CIV ENG 110	Course CIV ENG 110 Not Found
Select one of the following:	
IDE 150	Course IDE 150 Not Found
MECH ENG 160	Course MECH ENG 160 Not Found
Select three of the following:	9
Courses, which have any of the listed courses as	prerequisites, may also be used to fulfill this requirement.
AERO ENG 213	Course AERO ENG 213 Not Found
AERO ENG 313	Course AERO ENG 313 Not Found
AERO ENG 314	Course AERO ENG 314 Not Found
CHEM ENG 120	Course CHEM ENG 120 Not Found
CHEM ENG 141	Course CHEM ENG 141 Not Found
ELEC ENG 281	Course ELEC ENG 281 Not Found
MECH ENG 213	Course MECH ENG 213 Not Found
MECH ENG 219	Course MECH ENG 219 Not Found
or MECH ENG 227	Course MECH ENG 227 Not Found
MECH ENG 331	Course MECH ENG 331 Not Found *
NUC ENG 203	Course NUC ENG 203 Not Found
NUC ENG 303	Course NUC ENG 303 Not Found
PET ENG 320	Course PET ENG 320 Not Found
CIV ENG 230	Course CIV ENG 230 Not Found
or NUC ENG 221	Course NUC ENG 221 Not Found
or MECH ENG 231	Course MECH ENG 231 Not Found
CIV ENG 323	Course CIV ENG 323 Not Found

CIV ENG 333	Course CIV ENG 333 Not Found
ELEC ENG 368	Course ELEC ENG 368 Not Found
MECH ENG 307	Course MECH ENG 307 Not Found
MECH ENG 311	Course MECH ENG 311 Not Found
MECH ENG 334	Course MECH ENG 334 Not Found
MECH ENG 354	Course MECH ENG 354 Not Found
GEO ENG 315	Course GEO ENG 315 Not Found
GEOPHYS 286	Course GEOPHYS 286 Not Found
GEOPHYS 321	Course GEOPHYS 321 Not Found

<sup>\*</sup> Courses with an asterisk (\*) are co-listed in more than one department.

#### **Physics Option (B)**

Required courses:

PHYSICS 207	Course PHYSICS 207 Not Found	3
PHYSICS 307	Course PHYSICS 307 Not Found	3
And take at least nine addition	onal hours of physics courses at the 2000 level or above.	9

Note that the requirements for a minor in physics will be satisfied with this option.

### **Secondary Education Emphasis Area**

You may earn a B.S. Degree in Applied Mathematics from Missouri S&T and certification to teach at the secondary level in the schools of Missouri with this emphasis area program. This program can be completed in four academic years and student teaching is arranged with public schools within 30 miles of the Missouri S&T Campus.

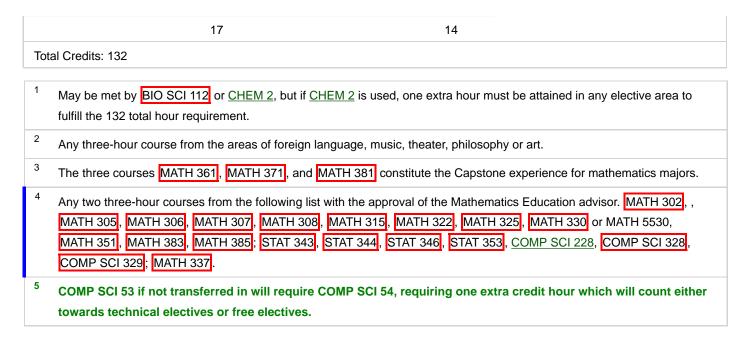
Students interested in this emphasis area should consult with the advisor for Mathematics Education majors in the Mathematics and Statistics Department.

In order to successfully complete this emphasis area, students must have at least a 22 ACT, maintain a cumulative GPA of at least 2.5, and attain at least a 2.5 GPA in all mathematics courses. Current Missouri S&T or transfer students who wish to pursue this emphasis area must meet both these GPA requirements to be accepted into the program. Students must also meet all requirements listed under the Teacher Education Program in the catalog. Students who do not meet all the teacher certification requirements will not be eligible for the Secondary Education Emphasis Area, even if they have completed all course work.

A degree in this emphasis area requires 132 credit hours. The required courses and a sample four-year program are provided below. (A minimum grade of "C" is required by the department in all mathematics and statistics courses counted toward this degree. No course may be used to satisfy more than one degree requirement.)

Freshman Year				
First Semester	Credits	Second Semester	Credits	
MATH 1	1	MATH 21	5	
MATH 8	5	BIO SCI 110	3	

ENGLISH 20	3	BIO SCI 112 (Science Lab Requirement) <sup>1</sup>	2		
HISTORY 175 or HISTORY 176	3	PSYCH 50	3		
COMP SCI 53, or COMP SCI 73 and COMP SCI 77, or COMP SCI 74 and COMP SCI 78 <sup>5</sup>	3	EDUC 40	2		
	15		15		
Sophomore Year					
First Semester	Credits	Second Semester	Credits		
MATH 22	4	MATH 204	3		
MATH 208	3	MATH 209	3		
PHYSICS 21	4	ENGLISH 60	3		
PHYSICS 22	1	PHYSICS 25	4		
PSYCH 208	3	PHYSICS 26	1		
EDUC 104	2	SP&M S 85	3		
	17		17		
Junior Year					
First Semester	Credits	Second Semester	Credits	Summer Semester	Credits
First Semester  MATH 309	Credits 3	Second Semester  MATH 311	Credits	Summer Semester EDUC 216	Credits
MATH 309 STAT 215, or STAT 217, or	3	MATH 311	3		
MATH 309  STAT 215, or STAT 217, or STAT 343	3	MATH 311 MATH 330	3		
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164	3 3 2	MATH 311 MATH 330 PSYCH 354	3 3		
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174	3 3 2 2 2	MATH 311  MATH 330  PSYCH 354  EDUC 280	3 3 3 6		
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155	3 3 2 2 2 3	MATH 311  MATH 330  PSYCH 354  EDUC 280	3 3 3 6		
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155	3 3 2 2 2 3 3	MATH 311  MATH 330  PSYCH 354  EDUC 280	3 3 3 6 3		3
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155  ECON 121 or ECON 122	3 3 2 2 2 3 3	MATH 311  MATH 330  PSYCH 354  EDUC 280	3 3 3 6 3		3
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155  ECON 121 or ECON 122  Senior Year	3 3 2 2 2 3 3 16	MATH 311  MATH 330  PSYCH 354  EDUC 280  Fine Art Elective <sup>2</sup>	3 3 6 3		3
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155  ECON 121 or ECON 122  Senior Year  First Semester	3 3 2 2 3 3 16  Credits	MATH 311  MATH 330  PSYCH 354  EDUC 280  Fine Art Elective <sup>2</sup> Second Semester	3 3 6 3 18		3
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155  ECON 121 or ECON 122  Senior Year  First Semester  MATH 361 <sup>3</sup>	3 3 2 2 3 3 16  Credits 1	MATH 311  MATH 330  PSYCH 354  EDUC 280  Fine Art Elective <sup>2</sup> Second Semester  MATH 381  EDUC 298	3 3 6 3 18 Credits 1		3
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155  ECON 121 or ECON 122  Senior Year  First Semester  MATH 361 <sup>3</sup> MATH 371 <sup>3</sup>	3 3 2 2 3 3 16  Credits 1	MATH 311  MATH 330  PSYCH 354  EDUC 280  Fine Art Elective <sup>2</sup> Second Semester  MATH 381  EDUC 298	3 3 6 3 18 Credits 1		3
MATH 309  STAT 215, or STAT 217, or STAT 343  EDUC 164  EDUC 174  PSYCH 155  ECON 121 or ECON 122  Senior Year  First Semester  MATH 361  MATH 371  Electives-Math or Stat4	3 3 2 2 3 3 16  Credits 1 1	MATH 311  MATH 330  PSYCH 354  EDUC 280  Fine Art Elective <sup>2</sup> Second Semester  MATH 381  EDUC 298	3 3 6 3 18 Credits 1		3



#### **Statistics Emphasis Area**

#### Required courses:

STAT 343	Course STAT 343 Not Found	3
STAT 344	Course STAT 344 Not Found	3
STAT 346	Course STAT 346 Not Found	3
STAT 353	Course STAT 353 Not Found	3
Select two of the following:		6
BIO SCI 231	Course BIO SCI 231 Not Found	
COMP SCI 228	Introduction To Numerical Methods	
ENG MGT 385	Course ENG MGT 385 Not Found	
And complete either A or B:		6-9
(A) Complete the following 2 courses:		
MATH 315	Course MATH 315 Not Found	
MATH 351	Course MATH 351 Not Found	
(B) Complete 6 hours from:		
MATH 303	Course MATH 303 Not Found	
MATH 307	Course MATH 307 Not Found	
MATH 308	Course MATH 308 Not Found	
Total Credits		24-27

**Note:** It is not required that students complete an emphasis area to obtain the Bachelor of Science degree in Applied Mathematics. The emphasis area requirements often specify most, if not all, of the electives in Mathematics, Statistics and Computer Science as well as many technical or free electives.

AP MATH-BS: Applied Mathematics BS

Justification for

request

In Footnote 9, we would like to include both options (Math 4530 and Math 5530) in Group 2 rather than defaulting to Math 4530, which is the primary option in the renumbering list. We plan to specify that credit will be granted for only one of Math 4530 and Math 5530.

In the Secondary Education emphasis area, we would also like to have "Math 4530 or Math 5530" in place of the Math 330 requirement. If it is possible at this stage, please change the inactive course Econ 321 to Math 337, which is a change we recently made in our general Applied Math curriculum (footnote 9).

In the Applied Analysis emphasis area option (B), we would like the requirement to read "at least nine additional hours of physics courses at the 2000 level or above". This preserves the options the students currently have to satisfy this requirement.

For clarification purposes, Footnote 10 has been altered to list the number of technical elective credit hours for each of the emphasis areas that has such a requirement. For actuarial science, the number of technical elective credit hours has been reduced from 12 to 9 to compensate for the increase in the emphasis area specific requirements that resulted from a change for Fall Semester 2013.

Supporting

**Documents** 

Course Reviewer

Comments

Key: 142

# **Course Inventory Change Request**

Date Submitted: 02/04/14 3:50 pm

Viewing: **BIO SCI 112/1219 <del>112</del>**: General

# **Biology Lab**

File: 107.1

Last edit: 03/06/14 7:16 pm Changes proposed by: shannonk

Requested Fall 2014-24-Aug-98

**Effective Change** 

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 112/1219-112

Title

#### In Workflow

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

### **Approval Path**

1. 02/18/14 11:02

am

aronstam:

Approved for

RBIOLSCI Chair

2. 02/18/14 3:12 pm

kleb6b: Approved for CCC Secretary

3. 03/06/14 7:17 pm

tauritzd:

Approved for Sciences DSCC Chair

General Biology Lab

Abbreviated

General Biology Lab

**Course Title** 

Catalog

Description

The laboratory work accompanying general biology consists of experiments designed to supplement and extend lectures in **General Biology and Principles of Biology** course Bio 1.

**Prerequisites** 

Preceded or accompanied by either Bio Sci 1113 or Bio Sci 1213. 110.

Field Trip

Statement

**Credit Hours** 

LEC: 1

LAB: 1

IND: 0

RSD: 0

Total: 2

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Fixes typo in course description and Prereqs should be 110 OR 111

Semesters

previously

offered as an

experimental

course

Co-Listed		
Courses:		
Course Reviewer Comments		

Key: 107

# **Course Inventory Change Request**

Date Submitted: 02/04/14 3:55 pm

Viewing: **BIO SCI 388/3483.TBD 388**:

### **Biomedical Problems**

File: 2278.1

Last edit: 02/18/14 3:11 pm Changes proposed by: shannonk

Requested Fall 2014-12-Aug-13

**Effective Change** 

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 388/3483-388

Title

#### In Workflow

- 1. RBIOLSCI Chair
- 2. CCC Secretary
- 3. 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. Peoplesoft

### **Approval Path**

1. 02/18/14 11:01

am

aronstam:

Approved for

RBIOLSCI Chair

2. 02/18/14 3:11 pm

kleb6b: Approved

for CCC Secretary

3. 03/06/14 7:21 pm tauritzd:

Approved for Sciences DSCC Chair

#### **Biomedical Problems**

**Abbreviated** 

**Biomedical Problems** 

**Course Title** 

### Catalog

#### Description

This course will use a problem-based learning approach to examine biological aspects of various medical conditions. Students will work in groups and individually to answer problems related to diagnostic testing and evaluation of diseases and other medical conditions.

**Prerequisites** 

Bio Sci 244 (3333) 242 or 246 (3343). 244 or 246.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Old prereq courses are no longer offered. A&P I or II replace previously offered courses

Semesters

previously

offered as an

experimental	
course	
Co-Listed	
Courses:	
Course Reviewer	
Comments	

Key: 2278

# Course Inventory Change Request

Date Submitted: 02/17/14 4:45 pm

**Viewing: BIO SCI 2372: Issues in Public Health** 

File: 1712.1

Last edit: 03/06/14 7:20 pm Changes proposed by: shannonk

Requested Fall 2014-08/14/2014

**Effective Change** 

Date

Department Biological Sciences

Discipline Biological Sciences (BIO SCI)

Course Number 2372

Title

#### In Workflow

- 1. RBIOLSCI Chair
- 2. CCC Secretary
- 3. 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. Peoplesoft

### **Approval Path**

1. 02/18/14 11:01

am

aronstam:

Approved for

RBIOLSCI Chair

2. 02/18/14 3:10 pm

kleb6b: Approved

for CCC Secretary

3. 03/06/14 7:20 pm tauritzd:

1 of 3 3/11/2014 8:30 AM

Approved for Sciences DSCC Chair

Issues in Public Health

Abbreviated

Issues in Public Health

**Course Title** 

#### Catalog

#### Description

Due to globalization, diseases such as West Nile Disease, Ebola Hemorrhagic Fever, and SARS are able to overcome geographic barriers and become widespread. Issues in Public Health investigates • chronic We will discuss the nature of these diseases and infectious diseases, and the their impact of globalization on such diseases, • environmental toxins, • controversies in public health. health, national security, and the global economy. Students will develop an awareness of current public health issues and trends in order to make informed arguments and personal choices.

Prerequisites

Bio Sci 1113 or Bio Sci 1213.

Field Trip

Statement

**Credit Hours** 

LEC: 2

LAB: 0

IND: 0

RSD: 0

Total: 2

Required for

No

Majors

Elective for

Yes-No

Majors

Justification for

change:

Allows exploration of more recent topics than listed in the previous description

2 of 3 3/11/2014 8:30 AM

Semesters previously offered as an experimental course

Co-Listed

Courses:

#### **Course Reviewer**

#### Comments

tauritzd (03/06/14 7:20 pm): The changes to the course description make it quite a bit more general than the old description, but Biology wants this in order to allow the instructor more freedom to choose the most current issues in Public Health in order to keep the course relevant. There were no objections voiced in the Sciences-DSCC.

Key: 1712

# Course Inventory Change Request

Date Submitted: 01/29/14 2:30 pm

Viewing: COMP ENG 214: Digital Engineering

### Lab II

File: 402.1

Last edit: 01/29/14 2:30 pm Changes proposed by: stanleyj

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

Requested Fall 2014-13-Aug-07

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 214

Title

#### In Workflow

- 1. RELECENG 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. Peoplesoft

### **Approval Path**

- 1. 01/29/14 4:04 pm kte: Approved for RELECENG Chair
- 2. 01/29/14 4:09 pm kleb6b: Approved for CCC Secretary
- 3. 02/10/14 12:39

pm

sraper: Approved for Engineering

**DSCC Chair** 

Digital Engineering Lab II

Abbreviated

Digital Eng Lab II

**Course Title** 

#### Catalog

#### Description

Advanced digital design techniques, Microcontroller based design, hardware and software codesign. Preceded or accompanied by Comp Eng 213. 213, Elec Eng 121 and Elec Eng 122.

#### **Prerequisites**

Comp Eng 111, Comp Eng 112, and Comp Sci 53 (or programming equivalent) each with grade of "C" or better.

Field Trip

Statement

**Credit Hours** 

LEC: 0

LAB: 1

IND: 0

RSD: 0

Total: 1

Required for

No

Majors

Elective for

No

Majors

#### Justification for

#### change:

Elec Eng 121 and 122 are removed from the preceded or accompanied course list because comparable material from Elec Eng 121 and 122 is taught in Comp Eng 111, which is a prerequisite for Comp Eng 214.

Semesters

previously

offered as an

experimental

course		
Co-Listed		
Courses:		
Course Reviewer Comments		

Key: 402

# **Course Inventory Change Request**

Date Submitted: 01/29/14 2:06 pm

Viewing: COMP ENG 342: Real-Time Digital

# **Signal Processing**

File: 413.1

Last edit: 01/29/14 4:10 pm Changes proposed by: stanleyj

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

Requested Fall 2014-16-Aug-10

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 342

**Title** 

#### In Workflow

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

### **Approval Path**

- 1. 01/29/14 4:04 pm kte: Approved for RELECENG Chair
- 2. 01/29/14 4:10 pm kleb6b: Approved for CCC Secretary
- 3. 02/10/14 12:40

pm

sraper: Approved for Engineering

**DSCC Chair** 

#### Real-Time Digital Signal Processing

**Abbreviated** 

Real-Time Digit Sign Pro

**Course Title** 

#### Catalog

#### Description

Introduction to the use of programmable DSP chips. Includes real-time data acquisition, signal generation, interrupt-driven programs, high-level language, and assembly level routines. Applications to real-time systems are also presented.

#### **Prerequisites**

Elec Eng **3400** <del>215</del> or Elec Eng **3410**. <del>267</del>.

Field Trip

Statement

**Credit Hours** 

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

#### change:

Elec Eng 215 has been renumbered as Elec Eng 3400. Elec Eng 267 is no longer offered. Elec Eng 267 has been renamed Elec Eng 3410.

Semesters

previously

offered as an

experimental

course

Co-Listed Courses:			
Course Reviewer Comments			

Key: 413

# **Course Inventory Change Request**

Date Submitted: 01/29/14 2:01 pm

Viewing: COMP ENG 345 : Digital Image

# **Processing**

File: 414.1

Last edit: 01/29/14 2:01 pm Changes proposed by: stanleyj

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

**Other Courses** 

referencing this

course

In The Catalog Description:

**ELEC ENG 5450: Digital Image Processing** 

Requested Fall 2014-14-Jan-02

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 345

Title

#### In Workflow

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

### **Approval Path**

1. 01/29/14 4:04 pm kte: Approved for

RELECENG Chair

2. 01/29/14 4:10 pm

kleb6b: Approved

for CCC Secretary

3. 02/10/14 12:40

pm

sraper: Approved

for Engineering

DSCC	$\sim$	•
11677	<i>1</i>	1 7 I F
1171		1411

#### **Digital Image Processing**

**Abbreviated** 

**Digital Image Processing** 

**Course Title** 

#### Catalog

#### Description

Fundamentals of human perception, sampling and quantization, image transforms, enhancement, restoration, channel and source coding. Prerequisite: Elec Eng **3410** 267

**Prerequisites** 

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Elec Eng 267 is no longer offered. This course has been renamed Elec Eng 3410 - Discrete Linear Systems.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

**ELEC ENG 345 - Course Not Found** 

**Course Reviewer** 

Comments

Key: 414

Date Submitted: 01/29/14 2:04 pm

**Viewing: COMP ENG 347: Machine Vision** 

File: 1981.1

Last edit: 01/29/14 2:04 pm Changes proposed by: stanleyj

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

Other Courses

referencing this

course

In The Catalog Description:

ELEC ENG 5460: Machine Vision

Requested Fall 2014 14-Aug-06

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 347

Title

In Workflow

1. RELECENG Chair

2. CCC Secretary

3. Engineering DSCC Chair

Pending CCC Agenda post

CCC Meeting Agenda

6. Campus Curricula Committee Chair

7. FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

### **Approval Path**

1. 01/29/14 4:03 pm kte: Approved for

**RELECENG Chair** 

2. 01/29/14 4:10 pm

kleb6b: Approved for CCC Secretary

3. 02/10/14 12:41

pm

sraper: Approved for Engineering

1 of 3 3/11/2014 8:39 AM

**DSCC Chair** 

Machine Vision

Abbreviated

**Machine Vision** 

**Course Title** 

#### Catalog

#### Description

Image information, image filtering, template matching, histogram transformations, edge detection, boundary detection, region growing and pattern recognition.

Complementary laboratory exercises are required.

### **Prerequisites**

Comp Eng 111 and preceded or accompanied by Elec Eng 3410. 267.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

#### Justification for

### change:

Elec Eng 267 is no longer offered. This course has been renamed Elec Eng 3410 - Discrete Linear Systems.

Semesters

previously

offered as an

experimental

course

Co-Listed

Courses:

**ELEC ENG 347 - Course Not Found** 

**Course Reviewer** 

Comments

Key: 1981

Date Submitted: 02/10/14 8:46 am

Viewing: **COMP ENG 391: Computer** 

# **Engineering Senior Project I**

File: 419.1

Last edit: 02/10/14 8:46 am Changes proposed by: watkins

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

**EL ENG-BS: Electrical Engineering BS** 

Requested Fall 2014 4 Jan 10

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 391

Title

### In Workflow

- 1. RELECENG 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. Peoplesoft

### **Approval Path**

1. 02/10/14 10:44

am

kte: Approved for RELECENG Chair

2. 02/10/14 12:59

pm

kleb6b: Approved for CCC Secretary

3. 02/17/14 12:02

pm

1 of 3 3/11/2014 8:40 AM

sraper: Approved for Engineering DSCC Chair

Computer Engineering Senior Project I

Abbreviated

Cp Eng Senior Project I

**Course Title** 

### Catalog

#### Description

A complete design cycle. Working in small teams, students will design, document, analyze, implement, and test a product. Topics include: Iteration in design, prototyping, group dynamics, design reviews, making effective presentations, concurrent design, designing for test, ethics and standards, testing and evaluation.

### Prerequisites

Stat 217, Comp Eng 111, Econ 121 or 122, Sp&M S 85, English 160, Comp Eng 213, 214, 215, and Elec Eng 121.

Field Trip

Statement

**Credit Hours** 

LEC: 0

LAB: 0.5

IND: 0

RSD: 0.5

Total: 1

Required for

No

Majors

Elective for

No

Majors

Justification for

### change:

Electives Stat 217 and SpMS 85 moved to Prerequisites for CpE 392. Modification to Undergraduate CpE Requirements per ECE Faculty 11/21/2013.

Semesters

previously

2 of 3 3/11/2014 8:40 AM

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

Key: 419

Date Submitted: 02/10/14 8:44 am

Viewing: COMP ENG 392 : Computer

# **Engineering Senior Project II**

File: 420.1

Last edit: 02/10/14 11:09 am Changes proposed by: watkins

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

**EL ENG-BS: Electrical Engineering BS** 

Requested Fall 2014-24-Aug-98

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Computer Engineering (COMP ENG)

Course Number 392

Title

### In Workflow

- 1. RELECENG 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. Peoplesoft

### **Approval Path**

1. 02/10/14 8:46 am kte: Approved for

RELECENG Chair

02/10/14/11:00

2. 02/10/14 11:09

am

kleb6b: Approved for CCC Secretary

3. 02/17/14 12:02

pm

sraper: Approved

1 of 3 3/11/2014 8:40 AM

for Engineering DSCC Chair

Computer Engineering Senior Project II

Abbreviated

Cp Eng Senior Project II

**Course Title** 

Catalog

Description

A continuation of Comp Eng 391.

**Prerequisites** 

Comp Eng 391 with a grade of "C" or better. Stat 217 and Sp&M S 85-Comp Eng

<del>391.</del>

Field Trip

Statement

**Credit Hours** 

LEC: 0

LAB: 3

IND: 0

RSD: 0

Total: 3

Required for

Yes-No

Majors

Elective for

No

Majors

Justification for

change:

Electives Stat 217 and SpMS 85 deleted from CpE 391 and moved to Prerequisites for

CpE 392. Modification to Undergraduate EE Requirements per ECE Faculty

11/21/2013.

Semesters

previously

offered as an

experimental

course

2 of 3 3/11/2014 8:40 AM

Co-Listed	
Courses:	
Course Reviewer	
Comments	

Key: 420

Date Submitted: 02/01/14 11:05 am

**Viewing: COMP SCI 128: Discrete Mathematics** 

# **For Computer Science**

File: 438.1

Last edit: 02/01/14 11:05 am Changes proposed by: tauritzd

Catalog Pages referencing this course

**Mathematics** 

Programs referencing this

course

AP MATH-BS: Applied Mathematics BS

CMP SC-BS: Computer Science BS

CMP SC-MI: Computer Science Minor
CP ENG-BS: Computer Engineering BS

Other Courses referencing this course

In The Prerequisites:

**COMP SCI 2500 : Algorithms** 

Requested

Spring 2015-12-Aug-13

**Effective Change** 

Date

In Workflow

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

### **Approval Path**

1. 02/01/14 12:39

pm

sdas: Approved

for RCOMPSCI

Chair

2. 02/03/14 8:07 am

kleb6b: Approved for CCC Secretary

3. 03/06/14 7:21 pm

tauritzd:

Approved for

Sciences DSCC

Chair

Department Computer Science

Discipline Computer Science (COMP SCI)

Course Number 128

Title Discrete Mathematics For Computer Science

Abbreviated

**Course Title** 

Discrete Math For Cmp Sc

#### Catalog

### Description

A rigorous treatment of topics from discrete mathematics which are essential to computer science. Principal topics include: formal logic (propositional & predicate), proof techniques, mathematical induction, program correctness, sets, combinatorics, discrete probability, relations, functions, matrices, graph theory and graph algorithms.

### Prerequisites

A "C" or better grade in Comp Sci 1570. 53 or at least Sophomore standing.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

Yes-No

Majors

Elective for

No

**Majors** 

#### Justification for

### change:

Comp Sci 1570 is necessary to understand program examples illustrating the concepts taught in this course.

Semesters

previously

2 of 3 3/11/2014 8:41 AM

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

Key: 438

Date Submitted: 02/10/14 8:39 am

Viewing: **ELEC ENG 391: Electrical Engineering** 

# **Senior Project I**

File: 596.1

Last edit: 02/10/14 8:39 am Changes proposed by: watkins

**Programs** 

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

**EL ENG-BS: Electrical Engineering BS** 

Requested Fall 2014-15-Aug-11

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 391

Title

### In Workflow

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

### **Approval Path**

1. 02/10/14 8:47 am

kte: Approved for RELECENG Chair

2. 02/10/14 11:10

am

kleb6b: Approved for CCC Secretary

3. 02/17/14 12:02

pm

sraper: Approved

1 of 3 3/11/2014 8:44 AM

for Engineering DSCC Chair

### **Electrical Engineering Senior Project I**

Abbreviated

EE Senior Project I

**Course Title** 

#### Catalog

### Description

A complete design cycle. Working in small teams, students will design, document, analyze, implement and test a product. Topics include: Iteration in design, prototyping, group dynamics, design reviews, making effective presentations, concurrent design, designing for test, ethics and standards, testing and evaluation.

### Prerequisites

Stat 217, Comp Eng 111, Econ 121 or 122, Sp&M S 85, English 160, at least 3 of the following: Elec Eng 205, Elec Eng 207, Elec Eng 231, 215, Elec Eng 241, 217, Elec Eng 271, Elec Eng 253.

Field Trip

Statement

**Credit Hours** 

LEC: 0

LAB: 0.5

IND: 0

RSD: 0.5

Total: 1

Required for

Yes-No

Majors

Elective for

No

Majors

#### Justification for

#### change:

Electives Stat 217 and SpMS 85 moved to Prerequisites for EE 392. Course EE 215 and EE 217 replaced by EE 231 and EE 241 in proposed currciulum. Modification to Undergraduate EE Requirements per ECE Faculty 11/21/2013 and 12/12/2013.

#### Semesters

2 of 3 3/11/2014 8:44 AM

Comments

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

Key: 596

Date Submitted: 02/10/14 8:41 am

**Viewing: ELEC ENG 392: Electrical Engineering** 

# **Senior Project II**

File: 597.1

Last edit: 02/10/14 11:11 am Changes proposed by: watkins

Programs

referencing this

course

**CP ENG-BS: Computer Engineering BS** 

**EL ENG-BS: Electrical Engineering BS** 

Requested Fall 2014-12-Aug-13

**Effective Change** 

Date

Department Electrical and Computer Engineering

Discipline Electrical Engineering (ELEC ENG)

Course Number 392

Title

In Workflow

1. RELECENG Chair

2. CCC Secretary

3. Engineering DSCC Chair

Pending CCC Agenda post

CCC Meeting Agenda

6. Campus Curricula Committee Chair

FS Meeting Agenda

8. Faculty Senate Chair

9. Registrar

10. Peoplesoft

### **Approval Path**

1. 02/10/14 8:46 am kte: Approved for

**RELECENG Chair** 

2. 02/10/14 11:11

am

kleb6b: Approved for CCC Secretary

3. 02/17/14 12:02

pm

sraper: Approved

1 of 3 3/11/2014 8:45 AM

for Engineering DSCC Chair

Electrical Engineering Senior Project II

Abbreviated

**EE Senior Project II** 

**Course Title** 

Catalog

Description

A continuation of **Elec** ₽ Eng 391.

**Prerequisites** 

Elec Eng 391 with a grade of "C" or better. Stat 217 and Sp&M S 85

Field Trip

Statement

**Credit Hours** 

LEC: 0

LAB: 3

IND: 0

RSD: 0

Total: 3

Required for

Yes-No

Majors

Elective for

No

Majors

Justification for

change:

Electives Stat 217 and SpMS 85 deleted for EE 391 and moved to Prerequisites for EE 392. Modification to Undergraduate EE Requirements per ECE Faculty 11/21/2013.

Semesters

previously

offered as an

experimental

course

Co-Listed

2 of 3 3/11/2014 8:45 AM

Course Reviewer	Courses:	
Comments	Course Reviewer Comments	

Key: 597

Date Submitted: 01/31/14 11:56 am

Viewing: MIN ENG 343: Coal Mine

# **Development And Production**

File: 1176.1

Last edit: 01/31/14 11:56 am

Changes proposed by: kabp3

**Programs** 

referencing this

course

MI ENG-BS: Mining Engineering BS

Requested Fall 2014-1-Jul-04

**Effective Change** 

Date

Department Mining & Nuclear Engineering

Discipline Mining Engineering (MIN ENG)

Course Number 343

Title

### In Workflow

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

### **Approval Path**

- 1. 01/31/14 1:12 pm frimpong:
  - Approved for
  - RMINNUCL Chair
- 2. 01/31/14 1:24 pm
  - kleb6b: Approved for CCC Secretary
- 3. 02/10/14 12:33

pm

sraper: Approved

1 of 3 3/11/2014 8:47 AM

for Engineering DSCC Chair

#### Coal Mine Development And Production

Abbreviated

Coal Min Devlp & Product

**Course Title** 

### Catalog

### Description

An in-depth study of all aspects of coal mining, including an overview of coal industry, reserves and geology, planning and development of coal mines, surface and underground mechanized methods of face preparation, equipment, coal extraction, handling and preparation as practiced in the United States.

### Prerequisites

Accompanied or preceded by Min Eng 317 or instructor consent. 217.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Min Eng 217 (the previous prerequisite) is no longer active.

Semesters

previously

offered as an

experimental

course

2 of 3 3/11/2014 8:47 AM

Co-Listed			
Courses:			
Course Reviewer			
Comments			

lahne (01/31/14 8:36 am): Rollback: .

Key: 1176

Date Submitted: 01/31/14 11:53 am

Viewing: MIN ENG 404: Advanced Mining

# **Systems**

File: 1657.1

Last edit: 01/31/14 11:53 am

Changes proposed by: kabp3

Requested Fall 2014 1 Jul 04

**Effective Change** 

Date

Department Mining & Nuclear Engineering

Discipline Mining Engineering (MIN ENG)

Course Number 404

Title

### In Workflow

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

### **Approval Path**

- 1. 01/31/14 1:12 pm frimpong:
  - Approved for
  - RMINNUCL Chair
- 2. 01/31/14 1:24 pm
  - kleb6b: Approved for CCC Secretary
- 3. 02/10/14 12:32

pm

sraper: Approved

1 of 3 3/11/2014 8:47 AM

for Engineering DSCC Chair

### **Advanced Mining Systems**

Abbreviated

**Advanced Mining Systems** 

**Course Title** 

### Catalog

#### Description

Principles of design for the development and production of hard rock mineral deposits that require integrated surface and underground mining methods. Cost considerations leading to optimization. Terminal feasibility report required.

### Prerequisites

Min Eng 324 224, 226 and 326 or instructor consent. 393.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Previous prerequisites are no longer active.

Semesters

previously

offered as an

experimental

course

2 of 3 3/11/2014 8:47 AM

Co-Listed

Courses:

Course Reviewer

Comments

lahne (01/31/14 8:36 am): Rollback: .

Key: 1657

Date Submitted: 01/31/14 11:53 am

**Viewing: MIN ENG 409: Mining Property** 

# **Feasibility Studies And Evaluation Procedure**

File: 1187.1

Last edit: 01/31/14 11:53 am

Changes proposed by: kabp3

Requested Fall 2014 1-Jul-04

**Effective Change** 

Date

Mining & Nuclear Engineering Department

Discipline Mining Engineering (MIN ENG)

**Course Number** 409

Title

### In Workflow

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

### **Approval Path**

- 1. 01/31/14 1:12 pm frimpong: Approved for
  - RMINNUCL Chair
- 2. 01/31/14 1:24 pm kleb6b: Approved

for CCC Secretary

3. 02/10/14 12:32

pm

sraper: Approved

1 of 3 3/11/2014 8:48 AM

for Engineering **DSCC Chair** 

Mining Property Feasibility Studies And Evaluation Procedure

**Abbreviated** 

Min Prop Feas Stu & Eval

**Course Title** 

#### Catalog

#### Description

A systematic phased approach is presented, designed to increase the level of confidence and accuracy of estimates, moving from exploration through to a "bankable" study. Liability, ethics, resource/reserves, political/social/investment risk, economic parameters, and due diligence are discussed.

#### **Prerequisites**

Min Eng 270 or Geology 294 or Civ Eng 241 or Eng Mgt 208 or Min Eng 376 or Geophys 382 or instructor consent. 382.

Field Trip

Statement

**Credit Hours** 

LEC: 2

LAB: 1

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

No

Majors

Justification for

change:

Old prerequisite courses are no longer active.

Semesters

previously

offered as an

experimental

2 of 3 3/11/2014 8:48 AM lahne (01/31/14 8:36 am): Rollback: .

MIN ENG 409: Mining Property Feasibility Studies And Evaluation Pro... https://nextcatalog.mst.edu/courseleaf/courseleaf.cgi?page=/courseadmin...

Key: 1187

### **New Course Proposal**

Date Submitted: 01/30/14 9:18 am

Viewing: ART 4320.TBD: French and

## **Francophone Cinema**

File: 4046

Last edit: 01/30/14 9:18 am Changes proposed by: kleb6b

Requested Fall 2014

Effective Change

Date

Department Arts, Languages, & Philosophy

Discipline Art (ART)

Course Number 4320

Title

### In Workflow

- 1. RPHILOSO Chair
- 2. CCC Secretary
- 3. Arts & Humanities 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. Peoplesoft

### **Approval Path**

1. 02/24/14 2:15 pm

lance: Approved

for RPHILOSO

Chair

2. 02/24/14 3:09 pm

kleb6b: Approved

for CCC Secretary

3. 02/24/14 3:47 pm ivliyeva:

Approved for Arts & Humanities

DSCC Chair

French and Francophone Cinema

Abbreviated

French Cinema

**Course Title** 

Catalog

Description

A survey of French and Francophone cinema.

**Prerequisites** 

French 2170 or instructor's consent.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Required for

No

Majors

Elective for

Yes

Majors

Justification for

new course:

Expand course offerings for French and Art Minors and provide further opportunities for students to learn about 1) French and Francophone culture, and 2) cinema.

This course was previously offered as French 301 Contemporary French Cinema.

This form is to create a co-listing.

Semesters

previously

2 of 3 3/11/2014 8:28 AM

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

Key: 4046

### **New Course Proposal**

Date Submitted: 02/06/14 4:02 pm

Viewing: ECON 345/4643: Ethical Problems in

### a Global Environment

File: 4047

Last edit: 02/26/14 3:08 pm Changes proposed by: marcys

Requested Summer 2014

**Effective Change** 

Date

Department Economics

Discipline Economics (ECON)

Course Number 345/4643

Title

#### In Workflow

- 1. RECONOMI 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. Peoplesoft

### **Approval Path**

- 1. 02/20/14 2:29 pm gelles: Approved for RECONOMI Chair
- 02/20/14 3:05 pm kleb6b: Approved for CCC Secretary
- 3. 02/26/14 9:29 am barryf: Rollback to CCC Secretary

1 of 3 3/11/2014 8:46 AM

for Social Sciences DSCC Chair

- 4. 02/26/14 1:37 pm kleb6b: Approved for CCC Secretary
- 5. 02/26/14 3:36 pm barryf: Approved for Social Sciences DSCC Chair
- 6. 03/11/14 8:42 am kleb6b: Approved for Pending CCC Agenda post

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), and meso-(org), and macro (systems) levels.

#### **Prerequisites**

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

Field Trip

Statement

Credit Hours LEC: 3.0 LAB: 0 IND: 0 RSD: 0

Total: 3.0

2 of 3 3/11/2014 8:46 AM

Required for No

Majors

Elective for Yes

Majors

Justification for

new course:

Taught as BUS 301-Ethical Problems in Int'l Business, SS 12; ECON 301-Ethical Problems in a Global Environment, SS 13. This course was also taught SS 2012 as a study abroad experience in China; and is an elective for minor (Global Sustainable Economics). It has been approved for the Global Studies Minor.

Semesters

previously

offered as an

experimental

course

BUS 301 in SS 2012

ECON 301 in SS 2013

Co-Listed

Courses:

Course Reviewer

Comments

lahne (02/06/14 3:59 pm): Rollback: .

barryf (02/26/14 9:29 am): Rollback: Clarify that students can't take both for credit.

Clarify justification.

Key: 4047

### **New Course Proposal**

Date Submitted: 02/06/14 4:07 pm

Viewing: ECON 5643: Advanced Ethical

## **Problems in a Global Environment**

File: 4048

Last edit: 02/26/14 3:10 pm Changes proposed by: marcys

Requested Fall 2014

Effective Change

Date

Department Economics

Discipline Economics (ECON)

Course Number 5643

Title

### In Workflow

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

### **Approval Path**

- 1. 02/20/14 2:29 pm gelles: Approved for RECONOMI Chair
- 2. 02/20/14 3:05 pm kleb6b: Approved for CCC Secretary
- 3. 02/26/14 9:29 am barryf: Rollback to CCC Secretary

for Social Sciences DSCC Chair

4. 02/26/14 1:37 pm kleb6b: Approved for CCC Secretary

5. 02/26/14 3:36 pm barryf: Approved for Social Sciences DSCC

Chair

Advanced Ethical Problems in a Global Environment

**Abbreviated** 

Adv Ethical Prob GlobEnv

**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

**Credit Hours** 

LEC: 3.0

LAB: 0

IND: 0

RSD: 0

Total: 3.0

Required for

No

Majors

2 of 3 3/11/2014 8:43 AM

Elective for Yes

Majors

Justification for

new course:

This course is the dual-careen companion to ECON 4653, which is justified as having been taught as BUS 301-Ethical Problems in Int'l Business, SS 12; ECON 301-Ethical Problems in a Global Environment, SS 13. This course was also taught SS 2012 as a study abroad experience in China; is an elective for minor (Global Sustainable Economics) and a graduate certificate. It has been approved for the Global Studies Minor.

Semesters

previously

offered as an

experimental

course

BUS 301 in SS 2012

ECON 301 in SS 2013

Co-Listed

Courses:

**Course Reviewer** 

Comments

**barryf (02/26/14 9:29 am):** Rollback: Clarify that students can't take both for credit. Clarify justification.

Key: 4048

3 of 3 3/11/2014 8:43 AM

### **New Experimental Course Proposal**

Date Submitted: 02/24/14 1:45 pm

**Viewing: PHILOS 101.TBD: INTRODUCTION TO** 

### **ETHICS**

File: 4055

Last edit: 02/24/14 3:49 pm Changes proposed by: denises

Requested Summer 2014

**Effective Change** 

Date

Department Arts, Languages, & Philosophy

Discipline Philosophy (PHILOS)

Course Number 101

Topic ID TBD

Title

### In Workflow

- 1. RPHILOSO Chair
- 2. CCC Secretary
- 3. Arts &

**Humanities DSCC** 

Chair

4. Pending CCC Agenda post

- CCC Meeting Agenda
- 6. Campus Curricula Committee Chair
- 7. Registrar
- 8. Peoplesoft

### **Approval Path**

1. 02/24/14 2:16 pm lance: Approved for RPHILOSO

Chair

2. 02/24/14 3:08 pm

kleb6b: Approved for CCC Secretary

3. 02/24/14 3:49 pm

ivliyeva:

Approved for Arts

& Humanities

DSCC Chair

1 of 2 3/11/2014 8:48 AM

#### **INTRODUCTION TO ETHICS**

Abbreviated

**INTRODUCTION TO ETHICS** 

**Course Title** 

Instructors

JONATHAN FINCH

### Catalog

Description

The study of proper and improper conduct is a complex inquiry. This class aims to introduce the student to a number of different thoughts and ideas about how this inquiry has been conducted by philosophers.

**Prerequisites** 

Entrance requirements.

Field Trip

Statement

**Credit Hours** 

LEC: 3

LAB: 0

IND: 0

RSD: 0

Total: 3

Justification for

new course:

Expansion of ethics curriculum

Semester(s)

previously taught

**NONE** 

Co-Listed

Courses:

**Course Reviewer** 

Comments

Key: 4055

2 of 2 3/11/2014 8:48 AM