



## MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

### Agenda

Campus Curricula Committee Meeting

November 3, 2009 Meeting

3:15 p.m. Room 117 Fulton Hall

Approval of October 6, 2009 minutes.

### **Review of submitted DC forms:**

DC 0337, Master of Science in Computer Science, Pervasive and Mobile Computing, effective Spring 2010. A proposal to create a new emphasis area under the Master of Science in Computer Science called Pervasive and Mobile Computing.

DC 0338, Bachelor of Science in Computer Science, effective Fall 2010. A proposal to modify the current Bachelor of Science in Computer Science.

DC 0339, Bachelor of Science in Computer Science, effective Fall 2010. A proposal to modify the current Bachelor of Science in Computer Science.

### **Review of submitted CC forms:**

CC 7734, Biological Sciences 370, Toxicology, effective Spring 2010.

CC 7736, Business 405, Advanced Accounting Essentials, effective Spring 2010.

CC 7737, Business 406, Graduate Management and business Law Essentials, effective Spring 2010.

CC 7738, Marketing 407, Marketing and Strategy Essentials, effective Spring 2010.

CC 7739, Business 408, Graduate Operations Management Essentials, effective Spring 2010.

CC 7740, Business 409, Graduate Mathematics and Statistics Essentials, effective Spring 2010.

CC 7741, Psychology 154, Psychology Personal Adjustment, effective Spring 2010.

CC 7742, Psychology 246, Motivation and Emotion, effective Spring 2010.

CC 7743, Biological Sciences 322, Pathogenic Microbio Lab, effective Spring 2010.



## MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

- CC 7744, Biological Sciences 365, Comparative Animal Physi, effective Spring 2010.
- CC 7745, Biological Sciences 376, Adv Bio Lab Tech II, effective Spring 2010.
- CC 7747, History 347, Orgns Mod Amer 1877-1920, effective Spring 2010.
- CC 7748, History 351, Amer Intellectual Hist I, effective Spring 2010.
- CC 7749, History 355, History of Black America, effective Spring 2010.
- CC 7750, History 356, Hist-The American City, effective Spring 2010.
- CC 7751, History 360, Hist of American Family, effective spring 2010.
- CC 7752, History 402, Rdgs Am Hist to 1865, effective Spring 2010.
- CC 7753, Political Science 250, State and Local Politics, effective Spring 2010.
- CC 7754, ERP 444, Essentials of Data Warehouses, effective Spring 2010.
- CC 7755, Chemical Engineering 366, Chem Process Simulation, effective Spring 2010.
- CC 7756, Mining Engineering 340, Rock Mechanics II, effective Spring 2010.
- CC 7757, Mining Engineering 308, Drilling and Blasting, effective Spring 2010.
- CC 7758, Mining Engineering 405, Non-Explosives Rock Frag, effective Spring 2010.
- CC 7759, Biological Sciences 382, Neurobiology, effective Fall 2010.
- CC 7760, System Engineering 368, System Engineering and Analysis I, effective Spring 2010.
- CC 7761, System Engineering 411, Systems Engineering Management, effective Spring 2010.
- CC 7762, System Engineering 412, Complex Engineering Systems Project Management, effective Spring 2010.
- CC 7763, System Engineering 413, Economic Analysis of Systems Engineering Projects, effective Spring 2010.



## MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

- CC 7764, System Engineering 468, System Engineering 468, effective Spring 2010.
- CC 7765, System Engineering 469, Systems Architecting, effective Spring 2010.
- CC 7766, Geology 211, Optical Mineralogy, effective Spring 2010.
- CC 7767, Geology 411, Advanced Mineralogy, effective Spring 2010.
- CC 7768, Computer Science 433, Theory of Compiling, effective Spring 2010.
- CC 7769, Engineering Management 317, Compar & Multi-Natl Mgt, effective Spring 2010.
- CC 7770, Engineering Management 389, Packaging Materials II, effective Spring 2010.
- CC 7774, Ceramic Engineering 201, Special Topics, effective Spring 2010.
- CC 7775, Physics 4, Concepts in Physics, effective Spring 2010.
- CC 7776, Physics 5, Concepts in Physics Lab, effective Spring 2010.
- CC 7777, Physics 7, Environmental Physics II, effective Spring 2010.
- CC 7778, Physics 27, General Physics Lab, effective Spring 2010.
- CC 7779, Physics 28, General Physics Lab, effective Spring 2010.
- CC 7780, Physics 337, Atmospheric Science, effective Spring 2010.
- CC 7781, Physics 435, Cloud Physics, effective Spring 2010.
- CC 7782, Chemistry 447, Statistical Thermodynamic, effective Spring 2010.
- CC 7783, Chemistry 442, Neutron Diffraction, effective Spring 2010.
- CC 7784, Chemistry 431, Inorganic Reaction Mechs, effective Spring 2010.
- CC 7785, Chemistry 421, Adv Organic Chemistry, effective Spring 2010.
- CC 7786, Chemistry 212, Science Teaching, effective Spring 2010.



# MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

- CC 7787, Sociology 260, Deviant Behavior, effective Spring 2010.
- CC 7788, Sociology 281, Family and Marriage, effective Spring 2010.
- CC 7789, Sociology 100, Special Problems, effective Spring 2010.
- CC 7790, Sociology 101, Special Topics, effective Spring 2010.
- CC 7791, Sociology 105, Social Organization, effective Spring 2010.
- CC 7792, Sociology 200, Special Problems, effective Spring 2010.
- CC 7793, Sociology 201, Special Topics, effective Spring 2010.
- CC 7794, Sociology 210, Seminar, effective Spring 2010.
- CC 7795, Sociology 300, Special Problems, effective Spring 2010.
- CC 7796, Sociology 301, Special Problems, effective Spring 2010.
- CC 7797, Sociology 310, Seminar, effective Spring 2010.
- CC 7798, German 90, Scientific German, effective Spring 2010.
- CC 7799, German 180, Basic German Composition, effective spring 2010.
- CC 7800, German 311, Advanced German Conversation, effective Spring 2010.
- CC 7801, German 402, Beg Ger for Grad Students, effective Spring 2010.
- CC 7802, French 378, French Theater, effective Spring 2010.
- CC 7803, Spanish 371, Surv of Span Am Lit, effective Spring 2010.
- CC 7804, Spanish 60, Hispanic Civilization, effective Spring 2010.
- CC 7805, Music 61, Fundamentals of Music, effective Spring 2010.
- CC 7806, Music 152, Survey Contemporary Music, effective Spring 2010.
- CC 7807, Music 155, Music in the U.S., effective Spring 2010.





## MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

- CC 7808, Art 251, Genre Studies Film & Lit, effective Spring 2010.
- CC 7809, Art 255, Script to Screen, effective Spring 2010.
- CC 7811, Eng Mech 202, Coop Engr Training, effective Spring 2010.
- CC 7812, Eng Mech 311, Intro to Continuum Mech, effective 2010.
- CC 7813, Eng Mech 341, Exper Stress Analysis I, effective Spring 2010.
- CC 7814, Eng Mech 373, Advance Dynamics, effective Spring 2010.
- CC 7815, Eng Mech 390, Undergraduate Research, effective Spring 2010.
- CC 7816, Eng Mech 463, Theo of Random Vibration, effective Spring 2010.
- CC 7817, Eng Mech 487, Finite Element Approx III, effective Spring 2010.
- CC 7819, Eng Mech 10, Intro to Engineering, effective Spring 2010.
- CC 7820, Eng Mech 201, Special Topics, effective Spring 2010.
- CC 7821, Eng Mech 300, Special Problems, effective Spring 2010.
- CC 7822, Eng Mech 301, Special Topics, effective Spring 2010.
- CC 7823, Eng Mech 307, Finite Element Approx I, effective Spring 2010.
- CC 7824, Eng Mech 310, Seminar, effective Spring 2010.
- CC 7825, Eng Mech 322, Intro to Solid Mechanics, effective Spring 2010.
- CC 7826, Eng Mech 329, Smart Materials and Sensor, effective Spring 2010.
- CC 7827, Eng Mech 334, Stability of Engr Struct, effective Spring 2010.
- CC 7828, Eng Mech 336, Fracture Mechanics, effective Spring 2010.
- CC 7829, Eng Mech 337, Fatigue Analysis, effective Spring 2010.
- CC 7830, Eng Mech 361, Vibrations I, effective Spring 2010.



## MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

*Formerly University of Missouri-Rolla*

CC 7831, Eng Mech 381, Intro Comp Mtrls/Struc, effective Spring 2010.

CC 7832, Eng Mech 400, Special Problems, effective Spring 2010.

CC 7833, Eng Mech 401, Special Topics, effective Spring 2010.

CC 7834, Eng Mech 408, Finite Element Approx II, effective Spring 2010.

CC 7835, Eng Mech 410, Seminar, effective Spring 2010.

CC 7836, Eng Mech 431, Theory of Plates, effective Spring 2010.

CC 7837, Eng Mech 432, Theory of Shells, effective Spring 2010.

CC 7838, Eng Mech 436, Adv Fracture Mechanics, effective Spring 2010.

CC 7839, Eng Mech 462, Theory of Vibrations II, effective Spring 2010.

CC 7840, Eng Mech 483, Mech/Composite Materials, effective Spring 2010.

CC 7841, Eng Mech 484, Analysis Lamin Comp Stru, effective Spring 2010.

CC 7842, Eng Mech 490, Research, effective Spring 2010.

CC 7843, Eng Mech 493, Oral Examination, effective Spring 2010.

CC 7844, Eng Mech 495, Continuous Registration, effective Spring 2010.

CC 7856, Music 171, Intro Electronic Music, effective Spring 2010.

### **Review of submitted EC forms:**

EC 2202, Biological Sciences 401, Advanced Toxicology, effective Spring 2010.

EC 2203, GE 201, Geology and Engineering of Ancient and Modern Peru, effective Spring 2010.

EC 2204, GE 401, Surface Waves & Ground Penetrating Radar, effective Spring 2010.

EC 2205, Ceramic Engineering 201, Applied Glass Forming, effective Spring 2010.



## MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY

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*Formerly University of Missouri-Rolla*

EC 2207, Geological Engineering 401, Civil Engineering 401, Inca Civilization Geotechnical Engineering Practices, effective Spring 2010.

EC 2208, Electrical Engineering 301, Electric-Drive Vehicles, effective Spring 2010.

EC 2209, Statistics 401, Survival Analysis, effective Fall 2010.

EC 2217, Biological Sciences 301, Cancer Cell Biology, effective Fall 2010.

EC 2218, Biological Sciences 401, Advanced Cancer Cell Biology, effective Fall 2010.

EC 2221, Biological Sciences 101, Genetics: Decoding your genes, effective Fall 2010.

Effective Year: 2010

Effective Term: Summer ☐ Fall ☒ Spring ☐

(Creating or modifying a degree program must be effective for a Fall term)

DC # 0338-2009-CS-000-00

## Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

Title of degree program, emphasis area, or minor:

BS

Department: Computer Science

Briefly describe action requested (Attach documentation as appropriate):

The requirement of an elective in humanities or social sciences will be changed to a required elective from the Philosophy department. The course options are Phil 225 or 235 or 340 or 368. Thus, in the second semester of senior year in the Sample Course of Study, "Humanities/Social Science Elective" should be replaced with "Philosophy Elective" and note (11) should now read: "Phil 225 or 235 or 340 or 368". *ETHICS*

This change is needed in order to respond to ABET's concerns about ethics instruction in the CS curriculum.

Recommended by Department:

*[Signature]*  
(Chair signature)

Date:

*Sept 8, 09*

Recommended by:

*[Signature]*

Discipline Specific Curricula Committee

(Chair signature)

Date:

*10/14/2009*

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

09/08/09

(Revised 1/31/2008)

## Computer Science — 113

- 345 Digital Image Processing (LEC 3.0)** Fundamentals of human perception, sampling and quantization, image transforms, enhancement, restoration, channel and source coding. Prerequisite: El Eng 267 (Co-listed with El Eng 345)
- 347 Machine Vision (LEC 3.0)** 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 267. (Co-listed with Elec Eng 347)
- 348 Wireless Networks (LEC 2.0 and LAB 1.0)** Introduction to wireless communications and networking. Topics include transmission fundamentals, wireless channel, coding techniques and error control, satellite and cellular networks, cordless systems, mobile IP and management, multiple access techniques and wireless protocols, wireless LAN, IEEE 802.11, and adhoc and sensor networks. Prerequisites: Hardware competency, Elec Eng 243 or Comp Eng 213 and graduate standing. (Co-listed with Elec Eng 348 and Sys Eng 348).
- 349 Trustworthy, Survivable Computer Networks (LEC 3.0)** This course examines basic issues in network management, testing, and security; it also discusses key encryption, key management, authentication, intrusion detection, malicious attack, and insider threats. Security of electronic mail and electronic commerce systems is also presented. Prerequisite: Cp Eng 319 or Comp Sc 265.
- 354 Mathematical Logic I (LEC 3.0)** A mathematical introduction to logic with some applications. Functional and relational languages, satisfaction, soundness and completeness theorems, compactness theorems. Examples from Mathematics, Philosophy, Computer Science, and/or Computer Engineering. Prerequisite: Philos 15 with junior standing or Math 305 or Comp Sci 253 or Comp Eng 111. (Co-listed with Comp Sci 354, Philos 354 and Math 354)
- 358 Computational Intelligence (LEC 3.0)** Introduction to Computational Intelligence (CI), Biological and Artificial Neuron, Neural Networks, Evolutionary Computing, Swarm Intelligence, Artificial Immune Systems, Fuzzy Systems, and Hybrid Systems. CI application case studies covered include digital systems, control, power systems, forecasting, and time-series predictions. Prerequisite: Stat 217. (Co-listed with Elec Eng 367 and Sys Eng 367)
- 372 Signal Integrity In High-Speed Digital & Mixed Signal Design (LEC 3.0)** Signal integrity ensures signals transmitted over a propagation path maintain sufficient fidelity for proper receiver operation. Compromised signal integrity is often associated with parasitics (e.g. unintentional inductance, capacitance). Theory and CAD tools used for signal integrity analysis of functioning designs. Prerequisites: El Eng 271 or Cp Eng 213, and Senior standing. (Co-listed with El Eng 372)
- 378 Mechatronics (LEC 2.0 and LAB 1.0)** This course will introduce students to the basics of mechatronics (i.e., the integration of mechanical, electrical, computer, and control systems). Students will learn the fundamentals of sensors and actuators for mechanical systems, computer interfacing, microcontrollers, real-time software, and control. Prerequisite: Mech Eng 279 or equivalent. (Co-listed with Mech Eng 378, Aero Eng 378 and Elec Eng 378)
- 382 Teaching Engineering (LEC 3.0)** Introduction to teaching objectives and techniques. Topics include: using course objectives to design a course; communication using traditional and cutting-edge media; textbook selection; assessment of student learning; grading; student learning styles; cooperative/active learning; and student discipline. Prerequisite: Graduate standing. (Co-listed with Eng Mg 370, Env En 382, El Eng 382, Cv Eng 382)
- 390 Undergraduate Research (IND 1.0-6.0)** Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six (6) credit hours allowed for graduation credit. Subject and credit to be arranged with the instructor.
- 391 Computer Engineering Senior Project I (RSD 0.5 and LAB 0.5)** 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, Cp Eng 111, Econom 121 or 122, Sp&M S 85, English 160, Cp Eng 213, 214, and a computer organization elective.
- 392 Computer Engineering Senior Project II (LAB 3.0)** A continuation of Cp Eng 391. Prerequisite: Cp Eng 391.

## Computer Science

### Bachelor of Science

### Master of Science

### Doctor of Philosophy

The Computer Science Department educates students in a broad range of areas. Students take courses in the design and implementation of software systems and the algorithms (problem solving techniques) used to solve "real world" problems in business, industry, and engineering or as preparation for graduate study. Students are given both the depth and breadth of computer science so necessary to keep them competitive in today's fast-changing world. While instruction and research are on the leading edge of computing, the

## 114 — Computer Science

Department endeavors to keep class sizes small to promote proactive teaching practices and effective interactions between the students and faculty.

In addition to computer science courses, the Department's undergraduate program requires students to be educated in a broad range of general education courses. All computer science seniors are expected to take the capstone course that gives them "real world" experience working in teams composed of fellow students and practicing computer scientists. These teams design, implement, test, and maintain actual software systems. (The sample curriculum shown below provides more detail.)

The Computer Science faculty has a broad range of scholarly interests which include computer security, databases and wireless systems, intelligent systems (artificial intelligence, machine learning, evolutionary computation), data mining, bioinformatics, parallel and distributed processing, software engineering, computer networks, scientific visualization, computational science, and algorithms. The research being done in these areas involves both undergraduates and graduates and supports the department's three major areas of excellence; software lifecycle, critical infrastructure protection, and bioinformatics. Faculty are not only actively doing research in these areas, they integrate their research experiences into the classroom.

Computer science graduates from Missouri S&T work in a variety of environments. Some work for large companies, others prefer smaller companies. Many of our graduates have started their own companies. Regardless of their choice of employment, Missouri S&T Computer Science graduates are in high demand as evidenced by the number of companies that specifically recruit our graduates.

The Computer Science Department at Missouri S&T makes use of both its own computer learning centers (CLCs) as well as university CLCs. The Department maintains several CLCs including the following instructional laboratories:

- Instructional Workstation Laboratory that provides Unix/Linux workstations,
- Instructional PC Laboratory consisting of PC computing platforms

Research laboratories provide support for both undergraduate and graduate students. These laboratories include:

- McDonnell Douglas Software Engineering Laboratory
- Bioinformatics Laboratory
- Experimental Computation Laboratory
- Web and Wireless Computing (W2C)
- Natural Computation Lab
- Network Research Lab

Wired and Wireless Network Access is available to all students, faculty and staff.

For further information, visit the Department's web page at <http://www.cs.mst.edu> or contact us at 573-341-4491 or at: [csdept@mst.edu](mailto:csdept@mst.edu).

## Faculty

### Professors:

All Hurson (Chair), Ph.D., Central Florida  
 Fikret Ercal, Ph.D., Ohio State  
 Frank Liu, Ph.D., Texas A & M  
 Bruce McMillin, Ph.D., Michigan State  
 Ann Miller, (Cynthia Tang Missouri Distinguished Professor of Computer Engineering), Ph.D., St. Louis University  
 Chaman Sabharwal, Ph.D., UIUC  
 Jagannathan Sarangapani, Ph.D., University of Texas-Arlington  
 Thomas Weigert (Daniel C. St. Clair Endowed Chair), Ph.D., University of Illinois  
 Ralph Wilkerson, Ph.D., SIU-Carbondale  
 Donald C. Wunsch II, (Mary Finley Missouri Distinguished Professor of Computer Engineering) Ph.D., University of Washington

### Associate Professors:

Jennifer Leopold, Ph.D., University of Kansas  
 Sanjay Madria, Ph.D., Indian Institute of Technology  
 Daniel Tauritz, Ph.D., Leiden University

### Assistant Professors:

Maggie Cheng, Ph.D., University of Minnesota  
 Sriram Chellappan, Ph.D., Ohio State University  
 Wei Jiang, Ph.D., Purdue University  
 Dan Lin, Ph.D., National University of Singapore

### Teaching Associate:

David M. Mentis, M.S., UMR  
 Matt Buechler, M.S., UMR

### Undergraduate Coordinator/Freshman Advisor & Transfer Advisor:

Clayton Price, M.S., UMR

### Emeritus Faculty:

Thomas Baird, M.S., UMR  
 Billy Gillett, Ph.D., Oklahoma State  
 Ralph E. Lee, M.A., Indiana  
 Howard D. Pyron, Ph.D., Iowa State  
 Thomas J. Sager, Ph.D., New Mexico  
 Frank G. Walters, M.S., UMR  
 George W. Zobrist, Ph.D., Missouri-Columbia

### Adjunct Faculty:

William E. Bond, Ph.D., Rensselaer  
 Randy Cannis, JD, UMC  
 Chris Merz, Ph.D., UC Irvine  
 William Van Staever, M.D., UMC

## Bachelor of Science Computer Science

A minimum of 128 credit hours is required for a Bachelor of Science degree in Computer Science and an average of at least two grade points per credit hour must be obtained. These requirements for the B.S. degree are in addition to credit received for algebra, trigonometry, and basic ROTC.

The Computer Science curriculum requires twelve semester hours in humanities, exclusive of foreign language, and must include English 60 or English 160. A minimum of nine semester hours is required in social sciences, including either History 175, 176, 112, or Pol

**Computer Science — 115**

Sc 90 or 176. Specific requirements for the bachelor degree are outlined in the sample program listed below.

All computer science majors must earn a "C" or better grade in each of the following courses: Cmp Sc 53, Cmp Sc 54, Cmp Sc 153, Cmp Sc 128, and Cmp Sc 253.

All computer science majors must earn a minimum cumulative grade point average of 2.00 for all computer science courses presented to satisfy the required and elective computer science requirements.

All computer science majors must earn a minimum cumulative grade point average of 2.00 for all computer science courses taken at Missouri S&T which are presented to satisfy the required and elective graduation requirements.

**Sample Course of Study****FRESHMAN YEAR**

First Semester	Credit
Cmp Sc 1-Intro to Computer Science <sup>(14)</sup> .....	1
Cmp Sc 53-Intro to Programming .....	3
Cmp Sc 54-Intro to Prog Lab .....	1
English 20-Exposition & Argumentation .....	3
Math 8-Calculus with Analytic Geometry I .....	5
Humanities Elective <sup>(15)</sup> .....	3
	16

**Second Semester**

Cmp Sc 153-Data Structures .....	3
Cmp Sc 128-Discrete Math for Cmp Sc .....	3
Math 21-Calculus with Analytic Geometry II .....	5
Laboratory science course(s) <sup>(1)</sup> .....	5
	16

**SOPHOMORE YEAR**

First Semester	Credit
Cmp Sc 253-Algorithms .....	3
Social Science Elective <sup>(2)</sup> .....	3
Literature Elective <sup>(3)</sup> .....	3
Physics Elective <sup>(4)</sup> .....	4
Sp&MS 85-Intro to Speech <sup>(4)</sup> .....	3
	16

**Second Semester**

Cmp Sc 238-File Struct & Intro Database Sys .....	3
Cmp Eng 111-Intro to Cmp Eng <sup>(12)</sup> .....	3
Math 208-Linear Algebra I <sup>(1)</sup> .....	3
Physics Elective <sup>(3)</sup> .....	4
Stat 215-Engineering Statistics <sup>(5)</sup> .....	3
	16

**JUNIOR YEAR**

First Semester	Credit
History Elective <sup>(2)</sup> .....	3
Cmp Sc 284-Intro Operating Systems .....	3
Cmp Eng 213-Digital Systems Design <sup>(12)</sup> .....	3
Cmp Sc 220-Theory of Computer Science .....	3
Free Elective <sup>(3)</sup> .....	3
	15

**Second Semester**

Cmp Sc 256-Prog Languages & Translators .....	3
Social Science Elective <sup>(2)</sup> .....	3
Cmp Sc 228-Intro to Numerical Methods .....	3
English 60-Writing and Research <sup>(13)</sup> .....	3
Cmp Sc 206-Software Engineering I .....	3
	15

**SENIOR YEAR**

First Semester	Credit
Cmp Sc Electives <sup>(6)</sup> .....	6
Eng/Science Electives <sup>(10)</sup> .....	6
Humanities/Social Science Elective <sup>(11)</sup> .....	3
Cmp Sc 397-Software Systems Development I .....	3
	18

**Second Semester**

Cmp Sc Electives <sup>(6)</sup> .....	6
Eng/Science Elective <sup>(10)</sup> .....	3
Humanities/Social Science Elective <sup>(11)</sup> .....	3
Free Elective <sup>(4)</sup> .....	4
	16

<sup>(1)</sup> Any science lecture-laboratory course or course pair totaling at least four hours credit. The laboratory is mandatory in all cases. These course(s) may be selected from: Chem 1, 2 and 4; Chem 5; Bio Sc 110 and 112; Physics 9 (or 11) and 10; Geology 51 and 53; Geology 52 and 54; and Bio Sc 115 and 116.

<sup>(2)</sup> Any nine hours that include courses from at least two of the following areas: economics, history, political science, psychology, or sociology. One course must satisfy the Missouri and U.S. Constitution requirement. (see Cmp Sc web page)

<sup>(3)</sup> Physics 23 and 24 or Physics 21-22/27 and Physics 25-26/28.

<sup>(4)</sup> Sp & MS 85 or Sp & MS 283.

<sup>(5)</sup> One literature and one humanities course in any of the humanities.

<sup>(6)</sup> Stat 215 or 343.

<sup>(7)</sup> Math 203 or 208.

<sup>(8)</sup> Courses chosen from any field so that 128 hours are completed. These and only these courses may be taken pass/fail and only one course may be taken pass/fail each semester. Some courses such as algebra, trigonometry, Arts & Sciences 110, Math 8, 14, 15, 21, Physics 21, 22, 23, 24, 25, 26, 27, 28, 31, 35 and the first two years of ROTC do not count toward the free electives.

<sup>(9)</sup> Fifteen hours are CS electives. At least twelve hours must be 300 level or higher CS courses (excluding CS 398 and CS 317). CS 202 and CS X7X courses are not accepted as CS electives.

<sup>(10)</sup> Any nine hours chosen from departments that offer a B.S., (or Basic Engineering), excluding computer science. These may not be Math 8, 14, 15, 21, Physics 21, 22, 23, 24, 25, 26, 27, 28, 31, or 35.

<sup>(11)</sup> Any three hours in humanities or social science.

<sup>(12)</sup> Laboratory not required.

<sup>(13)</sup> Or English 160 - Technical Writing.

<sup>(14)</sup> Or Chemistry 110, Physics 1, Math 1, or Pr Eng 10.

**Computer Science Minor Curriculum**

A student with a minor in computer science must meet the following requirements:

- Cmp Sc 153 and 12 elective hours in computer science beyond Cmp Sc 53, 54, 73 & 77 or 74 & 78.
- A member of the computer science faculty will serve as the student's minor advisor. The student and

## 116 — Computer Science

- his/her minor advisor will plan a course of study to meet the specific interests and needs of the student.
- c) Students pursuing a minor in computer science must earn a "C" or better, in Cmp Sc 53, Cmp Sc 54, Cmp Sc 153, Cmp Sc 128, and Cmp Sc 253 if any of these courses are taken for the minor.

### Bioinformatics Minor

Students majoring in computer science are eligible to pursue a minor in bioinformatics. See the description of the bioinformatics minor.

### Computer Science Courses

- 1 **Introduction To Computer Science (LEC 1.0)**  
This course is devoted to an introduction of various areas of Computer Science, the faculty members, and lab equipment. Computer ethics will be discussed in several lectures.
- 53 **Introduction To Programming (LEC 3.0)**  
Programming design and development using C++. Emphasis placed on problem solving methods using good programming practices and algorithm design and development. Topics included are syntax/semantics, logical, relational and arithmetic operators, decision branching, loops, functions, file I/O, arrays, output formatting, C-strings, and an introduction to Object-Oriented Programming including the development and use of classes. Prerequisite: Accompanied by Cmp Sc 54.
- 54 **Introduction To Programming Laboratory (LAB 1.0)**  
Practical applications of concepts learned in Computer Science 53. Hands-on instruction in C++ developing, debugging, and testing programming projects. Prerequisite: Accompanied by Comp Sci 53.
- 73 **Basic Scientific Programming (LEC 2.0)**  
Introduction to the structure of programs and programming techniques in Fortran to solve science and engineering problems. Topics include data representation, basic solutions of numerical problems and the debugging and verification of programs. Prerequisite: Entrance requirements.
- 74 **Introduction To Programming Methodology (LEC 2.0)**  
Basic structured programming and problem solving techniques using C++. Development, debugging, and testing of programs, data representation. Topics to include syntax/semantics, operators, loops, decision branching, arrays, file I/O. This course is a terminal course for non-majors and is not sufficient for entry into Computer Science 153.
- 77 **Computer Programming Laboratory (LAB 1.0)**  
A laboratory to accompany Cmp Sc 73 which emphasizes the designing, writing and debugging of programs in Fortran. Prerequisite: Accompanied by Cmp Sc 73.
- 78 **Programming Methodology Laboratory (LAB 1.0)**  
A hands-on introduction to structured programming in C++. Development, coding, debugging, and execution of programming concepts discussed in Computer Science 74. Prerequisite: Accompanied by Computer Science 74.
- 101 **Special Topics (Variable 0.0-6.0)**  
This course is designed to give the department an opportunity to test a new course. Variable title.
- 128 **Discrete Mathematics For Computer Science (LEC 3.0)**  
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, probability, relations, functions, matrices, graph theory and graph algorithms. Prerequisite: Comp Sci 53 or at least sophomore standing.
- 153 **Data Structures (LEC 3.0)**  
A continuation of the development of structured programming concepts and their use in program development. Stacks, queues, linked list, arrays, trees, sorting and searching will be taught together with their use in implementations of a number of algorithms. Prerequisites: Grade of "C" or better in Cmp Sc 53.
- 200 **Special Problems (IND 0.0-6.0)**  
Problems or readings on specific subjects or projects in the department. Consent of instructor required.
- 201 **Special Topics (Variable 0.0-6.0)**  
This course is designed to give the department an opportunity to test a new course. Variable title.
- 202 **Cooperative Work Training (IND 1.0-5.0)**  
On-the-job experience gained through cooperative education with industry, with credit arranged through departmental cooperative advisor. Grade received depends on quality of reports submitted and work supervisors evaluation. Not more than 9 hours may be applied to the B.S. degree.
- 206 **Software Engineering I (LEC 3.0)**  
Development of methodologies useful in the software engineering classical life cycle. This includes: requirements, design, implementation, and testing phases. These methodologies are reinforced through utilization of a CASE tool and a group project. Prerequisite: Cmp Sc 253.
- 210 **Seminar (IND 0.0-6.0)**  
Discussion of current topics.
- 220 **Theory of Computer Science (LEC 3.0)**  
This course will cover the theoretical underpinnings of computer science. In particular, this course will cover the following topics: basic computability and formal language concepts, regular languages, context free languages, recursively-enumerable languages, and classes P, NP, and NP-completeness. Prerequisites: Comp Sci 128 and Comp Sci 153.
- 228 **Introduction To Numerical Methods (LEC 3.0)**  
Finite difference interpolation, numerical differentiation and integration, linear systems of equations, solution of nonlinear equations, numerical solution of ordinary differential equations, computational techniques and the programming of a large number of problems on



Effective Year: 2010

Effective Term: Summer ☐ Fall ☒ Spring ☐

(Creating or modifying a degree program must be effective for a Fall term)

DC # 0339-2009-CS-000-00

## Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

**Title of degree program, emphasis area, or minor:**  
BS


**Department:** Computer Science

**Briefly describe action requested (Attach documentation as appropriate):**

In order to make the Sample Study correctly reflect the requirements for the bachelors degree in Computer Science, the following changes should be made.

In the first semester of the senior year, "Cmp Sc Electives .... 6" should be changed to "Cmp Sc Electives .... 9", and delete the "Humanities/Social Science Elective" line in that same semester.

These changes will make the sample have the proper number of electives in those categories.

Recommended by Department:   
(Chair signature)

Date: Sept 9, 09

Recommended by:   
Discipline Specific Curricula Committee (Chair signature)

Date: 10/14/2009

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

**Effective Year: 2010****Effective Term: Summer** ☐ **Fall** ☐ **Spring** ☒

(Creating or modifying a degree program must be effective for a Fall term)

DC #0337-2009-CS-000-00

## Degree Change Form (DC)

This form is to be used for creating or modifying degree programs, emphasis areas, and minors.

**Title of degree program, emphasis area, or minor:**

Proposed : Pervasive and Mobile Computing (MS)

**Department: CS****Briefly describe action requested (Attach documentation as appropriate):**

Pervasive and Mobile Computing has become one of the emphasis areas in the Department of Computer Science among Bioinformatics, Software Engineering, and Critical Infrastructure Protection. The students who opt for the concentration in this area of study will take any three classes from CS338, CS 401(Heterogeneous and Mobile Databases), CS467, CS434,CS437,CS484 and two classes from CS365,CS401(Network Performance Monitoring), CS465,CS462, and CS463.

1. CS 338 Database Systems
2. CS 434 Data Mining & Knowledge Discovery
3. CS 365 Computer Communication and Networks
4. CS 401 Heterogeneous and Mobile Databases
5. CS 462 Advanced Network Security
6. CS 463 Computer Security
7. CS 465 Advanced Topics in Wireless Networks
8. CS 467 Mobile and Sensor Data Management
9. CS 484 Distributed Systems and Theory
10. CS 437 Web Data Management And XML
11. CS401 Network Performance Monitoring

insert space

Recommended by Department:

  
 (Chair signature)

Date:

Sept 4, 09

Recommended by Discipline Specific Curricula Committee:

  
 (Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

## Form PC

### PROGRAM CHANGE FORM

1. Submitted by: Department of Computer Science, Missouri University of Science and Technology
2. Name of Institution (Campus or off-campus residential center in the case of multi-campus institutions) Missouri University of Science and Technology
3. Type of Program Change (Check those that apply):

- ☐ Title change only  
☐ Combination program created out of closely allied existing programs  
☒ Option(s) added to existing program(s)  
☐ Addition of certificate program developed from approved existing parent degree  
☐ Addition of free-standing single-semester certificate program  
☐ Delete program(s)  
☐ Delete option(s)  
☐ Program placed on "Inactive Status" list

4. Indicate Program Change or Addition of Options:

Before the Proposed Change			After the Proposed Change		
Title of Old Program or Certificate Option	Degree	CIP Code	Title of New Program or Certificate Option	Degree	CIP Code
			Pervasive and Mobile Computing	MS	

5. Attach a copy of the "before and after" curriculum, as applicable, and a rationale for the proposed change.

Rationale: Pervasive and Mobile Computing has been an area of tremendous growth and opportunity for research and training. This field of specialization is in great demand among academia, industry, and research labs due to its vast application in areas such as tracking, sensing, monitoring, and wireless computing. In Missouri S&T's Department of Computer Science, there is large number of students working towards their Ph.D. and M.S. degree with emphasis in the area of Pervasive and Mobile Computing. The department has several faculty members who have extensive publications, received funding from government agencies and industry, graduated Ph.D./M.S. students, and are teaching classes covering topics such as mobile ad hoc networks, sensor networks, mobile data management, and security. At Missouri S&T, the Department of Computer Science offers many graduate classes in this focus area of research. Students can select five courses from the pool of courses given below to get an emphasis in the area of Pervasive and Mobile Computing.

1. CS 338 Database Systems
2. CS 365 Computer Communication and Networks
3. CS 401 Heterogeneous and Mobile Databases
4. CS 401 Network Performance Monitoring
5. CS 434 Data Mining & Knowledge Discovery
6. CS 437 Web Data Management And XML
7. CS 463 Computer Security
8. CS 465 Advanced Topics in Wireless Networks
9. CS 467 Mobile and Sensor Data Management
10. CS 484 Distributed Systems and Theory
11. CS 468 Advanced Network Security

The students who opt for the concentration in this area of study will take any three classes from CS338, CS401(Heterogeneous and Mobile Databases), CS434, CS437, CS467, CS484 and two classes from CS365, CS401(Network Performance Monitoring), CS465, CS463, and CS468.

6. Intended date of program change, additional options, or "Inactive Status":

Month/Year

Spring 2010

#### AUTHORIZATION

Ali Hurson, CS professor and Chair

Name/Title of Institutional Officer      Signature      Date

Ali Hurson

Person to Contact for More Information      Telephone Number

Effective Year: 2010

CC File # 7734-2009-BioSci-370-32

Effective Term: Summer ☐ Fall ☐ Spring ☒

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☐Credit Hours ☐Prerequisites ☒Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Biological Sciences

Bio

2. Discipline and Course Number: Present : 370

Proposed:

3. Course Title: Present: Toxicology

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture: 3

Lab: NA

Total: 3

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Bio 211 plus either Bio 215 or 242

Proposed: Bio 211 and Bio 231 and at least junior standing

8. Required for Majors: ☐Elective for Majors: ☒

9. Justification: Prerequisites are being modified to ensure students will have proper background for this topic.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

  
(Chair signature)

Date: 10/12/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

Effective Term: SP10

CC File # 7736-2009-BUS-405-33

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐  
 Course Title ☒ Catalog Description ☒ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: N/A Department: Business

2. Discipline and Course Number: Present : BUS 405 Proposed:

3. Course Title: Present: Advanced Accounting Essentials

Proposed: Graduate Accounting Essentials

Abbreviated Course Title: Grad Acct Essentials

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

### 4. Catalog Description (40 Words or Less)

**Present:** This course is an introduction to the essentials of financial and managerial accounting for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.

**Proposed:** This course is an intro to the essentials of financial & managerial accounting for running a business. It's designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit cannot be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours: Present: Lecture: 1.5 Lab: Total: 1.5  
Proposed: Lecture: 1.5 Lab: Total: 1.5

### 6. Prerequisites:

Present: Bachelor Degree

Proposed:

7. Required for Majors: ☐ Elective for Majors: ☐

8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as BUS 301B in FS07 and BUS 405 in SP08.

### 9. Semesters previously offered as an experimental course (101, 201, 301, 401):

### 10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

1) 4)

2) 5)

3) 6)

Recommended by Department Caroline Fisher

(Chair signature)

Date: 9/9/09

Recommended by School/College: DSCC  
Barry Hochstet

(Dean signature)

Date: 9/23/09

Recommended by UMR Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_  
(Action)

Recommended by Academic Council: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_  
(Action)

Effective Term: SP10

CC File # 7737-2009-BUS-406-33

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐Course Deletion ☐Credit Hours ☐Prerequisites ☐Course Title ☒Catalog Description ☒Course Number ☐Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: N/A

Department: Business

2. Discipline and Course Number: Present : BUS 406

Proposed:

3. Course Title: Present: Graduate Management and Business Law Essentials

Proposed: Graduate Management and Business Law Essentials

Abbreviated Course Title: Grad Mngmt Essentials

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

**Present:** This course is an introduction to the essentials of management and business law for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.

**Proposed:** This course is an intro to the essentials of management and business law for running a business. It's designed for students planning to enter the MBA program who need this area & for non-business students who want some business background. Credit cannot be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours:

Present:

Lecture: 1.5

Lab:

Total: 1.5

Proposed:

Lecture: 1.5

Lab:

Total: 1.5

6. Prerequisites:

Present: Bachelor Degree

Proposed:

7. Required for Majors: ☐Elective for Majors: ☐

8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as BUS 301C in FS07 and BUS 406 in SP08.

9. Semesters previously offered as an experimental course (101, 201, 301, 401):

10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

1)

4)

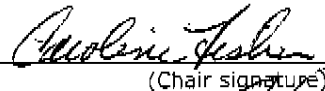
2)

5)

3)

6)

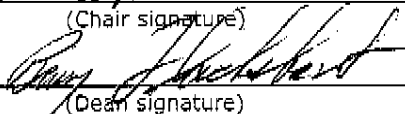
Recommended by Department


  
(Chair signature)

Date: 9/9/09

Recommended by School/College:

DSCC


  
(Dean signature)

Date: 9/23/09

Recommended by UMR Curricula Committee:

(Chair signature)

Date: (Action)

Recommended by Academic Council:

(Chair signature)

Date: (Action)

Effective Term:

CC File # 7738-2009-MKT-407-33

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐Course Deletion ☐Credit Hours ☐Prerequisites ☐Course Title ☒Catalog Description ☒Course Number ☐Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: N/A

Department: Business

2. Discipline and Course Number: Present : MKT 407

Proposed:

3. Course Title: Present: Marketing and Strategy Essentials

Proposed: Graduate Marketing and Strategy Essentials

Abbreviated Course Title: Grad Mktg Essentials

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

### 4. Catalog Description (40 Words or Less)

**Present:** This course is an introduction to the essentials of marketing and strategy for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.

**Proposed:** This course is an intro to the essentials of marketing and strategy for running a business. It's designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit can not be applied to any major or minor in business, IST or economics. Additional case or report required.

### 5. Credit Hours:

Present:

Lecture: 1.5

Lab:

Total: 1.5

Proposed:

Lecture: 1.5

Lab:

Total: 1.5

### 6. Prerequisites:

**Present:** Bachelor Degree or Senior Standing. Not open to IST or Business & Mngmt Systems majors or minors

**Proposed:** Bachelor Degree

### 7. Required for Majors: ☐

Elective for Majors: ☐

8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as BUS 301E in FS07 and BUS 407 in SP08.

### 9. Semesters previously offered as an experimental course (101, 201, 301, 401):

### 10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

1)

4)

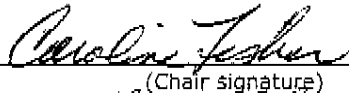
2)

5)

3)

6)

Recommended by Department



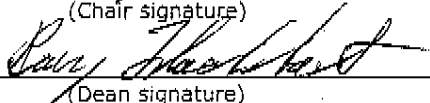
(Chair signature)

Date:

9/9/09

Recommended by School/College:

DSCC



(Dean signature)

Date:

9/23/09

Recommended by UMR Curricula Committee:

(Chair signature)

Date:

(Action)

Recommended by Academic Council:

(Chair signature)

Date:

(Action)



Effective Term: SP10

CC File # 7739-2009-BUS-408-33

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐Course Deletion ☐Credit Hours ☐Prerequisites ☐Course Title ☒Catalog Description ☒Course Number ☐Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: N/A

Department: Business

2. Discipline and Course Number: Present : BUS 408

Proposed:

3. Course Title: Present: Graduate Operations Management Essentials

Proposed: Graduate Operations Management Essentials

Abbreviated Course Title: Grad Operations Essn.

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

**Present:** This course is an intro to the essentials of operations management for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.

**Proposed:** This course is an intro to the essentials of operations management for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit can not be applied to any major or minor in business, IST, or economics. Additional case or report required.

5. Credit Hours:

Present:

Lecture: 1.5

Lab:

Total: 1.5

Proposed:

Lecture: 1.5

Lab:

Total: 1.5

6. Prerequisites:

Present: Bachelor Degree

Proposed:

7. Required for Majors: ☐Elective for Majors: ☐

8. Justification: This course is required for a Business Essentials Certificate that has been approved. It has been taught as an BUS 301A in FS07 and BUS 408 in SP08.

9. Semesters previously offered as an experimental course (101, 201, 301, 401):

10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

1)

4)

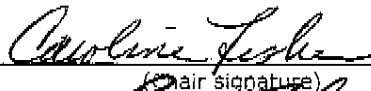
2)

5)

3)

6)

Recommended by Department

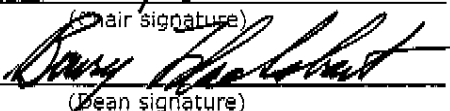


Date:

9/9/09

Recommended by School/College:

DSCC



Date:

9/23/09

Recommended by UMR Curricula Committee:

(Chair signature)

Date:

(Action)

Recommended by Academic Council:

(Chair signature)

Date:

(Action)

Effective Term: SP10

CC File # 7740-2009-BUS-409-33

# Course Change Form (CC)

This form is for creating or modifying permanent courses.

## Course Changes (Check all changes.)

New Course ☐Course Deletion ☐Credit Hours ☐Prerequisites ☐Course Title ☒Catalog Description ☒Course Number ☐Co-listing ☐

## Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: N/A

Department: Business

2. Discipline and Course Number: Present : BUS 409

Proposed:

3. Course Title: Present: Graduate Mathematics and Statistics Essentials

Proposed: Graduate Mathematics and Statistics Essentials

Abbreviated Course Title: Grad Math Essentials

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

### 4. Catalog Description (40 Words or Less)

**Present:** This course is an introduction to the essentials of mathematics and statistics for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit in this course can not be applied to any major or minor in business, IST, or economics.

**Proposed:** This course is an intro to the essentials of mathematics & statistics for running a business. It is designed for students planning to enter the MBA program who need this area and for non-business students who want some business background. Credit can not be applied to any major or minor in business, IST, or economics. Additional case or report required.

### 5. Credit Hours:

Present:

Lecture: 1.5

Lab:

Total: 1.5

Proposed:

Lecture: 1.5

Lab:

Total: 1.5

### 6. Prerequisites:

Present: Bachelor Degree

Proposed:

### 7. Required for Majors: ☐

Elective for Majors: ☐

**8. Justification:** This course is required for a Business Essentials Certificate that has been approved. It has been taught as an BUS 301F in FS07 and BUS 409 in SP08.

### 9. Semesters previously offered as an experimental course (101, 201, 301, 401):

### 10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

1)

4)

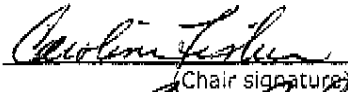
2)

5)

3)

6)

Recommended by Department

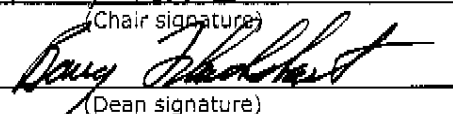

  
(Chair signature)

Date:

9/9/09

Recommended by School/College:

DSCC


  
(Dean signature)

Date:

9/23/09

Recommended by UMR Curricula Committee:

(Chair signature)

Date:

(Action)

Recommended by Academic Council:

(Chair signature)

Date:

(Action)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

-CC File # 7741-2009-Psych-154-2C

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Psychological Science

2. Discipline and Course Number: Present : Psych 154

Proposed:

3. Course Title: Present: Psych Personal Adjustment

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department



(Chair signature)

Date: 9/9/09

Recommended by Discipline Specific Curricula Committee



(Chair signature)

Date: 9/23/09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7742-2009-Psy-246-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Psychological Science

2. Discipline and Course Number: Present : Psych 246

Proposed:

3. Course Title: Present: Motivation and Emotion

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

*Nancy Stone*

(Chair signature)

Date:

9/9/09

Recommended by Discipline Specific Curricula Committee

*Ray Westbrook*

(Chair signature)

Date:

9/23/09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7743-2009-Bio Sci-322-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Biological Sciences

2. Discipline and Course Number: Present: Bio Sci 322 Proposed:

3. Course Title: Present: Pathogenic Microbio Lab

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department



(Chair signature)

Date:

9/10/09

Recommended by Discipline Specific Curricula Committee



(Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7744-2009-BioSci-365-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Biological Sciences

2. Discipline and Course Number: Present: Bio Sci 365 Proposed:

3. Course Title: Present: Comparative Animal Physi  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department Chet Spaden Date: 9/10/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee Daniel F. Smith Date: 10/14/2009  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7745-2009-BioSci-376-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Biological Sciences

2. Discipline and Course Number: Present: Bio Sci 376

Proposed:

3. Course Title: Present: Adv Bio Lab Tech II

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

(Chair signature)

Date:

9/1/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7747-2009-Hist-347-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present: History 347 Proposed:

3. Course Title: Present: Orgns Mod Amer 1877-1920

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:

Present:

Proposed:


8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department   
(Chair signature)Date: 9/4/09Recommended by Discipline Specific Curricula Committee   
(Chair signature)Date: 9/21/09Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7748-2009-Hist-351-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present : History 351

Proposed:

3. Course Title: Present: Amer Intellectual Hist I

Proposed:

Abbreviated Course Title:

(24 Spaces or Less, Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

  
(Chair signature)

Date: 9/4/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 9/21/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/21/09

(Revised 1/31/08)

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Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7749-2009-Hist-355-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present : History 355

Proposed:

3. Course Title: Present: History Of Black America

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

  
(Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 9/21/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7750-2009-Hist-356-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present: History 356

Proposed:

3. Course Title: Present: Hist-The American City

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

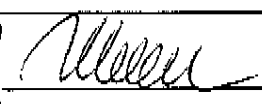
1)	2)	3)
4)	5)	6)

Recommended by Department

  
 (Chair signature)

Date: 9/4/09

Recommended by Discipline Specific Curricula Committee

  
 (Chair signature)

Date: 9/21/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7751-2009-Hist-360-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present: History 360

Proposed:

3. Course Title: Present: Hist Of Amer Family

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

*J. A. [Signature]*

(Chair signature)

Date: 7/4/09

Recommended by Discipline Specific Curricula Committee

*[Signature]*

(Chair signature)

Date: 9/21/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7752-2009-Hist-402-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present: History 402

Proposed:

3. Course Title: Present: Rdgs Am Hist To 1865

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

  
(Chair signature)

Date: 7/4/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 9/21/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7753-2009-PolSci-250-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: History and Political Science

2. Discipline and Course Number: Present : Pol Sci 250 Proposed:

3. Course Title: Present: State and Local Politics  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department Y. Amey

(Chair signature)

Date: 5/4/09

Recommended by Discipline Specific Curricula Committee A. Wilson

(Chair signature)

Date: 5/21/09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

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Effective Term: SP2010

CC File # 7754-2009-ERP-444-10

# Course Change Form (CC)

This form is for creating or modifying permanent courses.

## Course Changes (Check all changes.)

New Course ☒ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☒

## Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. School/College: Department: Bus & Info Tech

2. Discipline and Course Number: Present: Proposed: ERP 444

3. Course Title: Present: Essentials of Data Warehouses  
 Proposed:

Abbreviated Course Title: Data Warehouses  
 (24 Spaces or Less. Only needed for New Courses or Title Changes.)

### 4. Catalog Description (40 Words or Less)

Present: This course presents the topic of data warehouses and the value to the organization. It takes the student from the database platform to structuring a data warehouse environment. Focus is placed on simplicity and addressing the user community needs.

Proposed:

5. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: 3.0 Lab: Total: 3.0

### 6. Prerequisites:

Present: IST 223 or equivalent relational database experience

Proposed:

7. Required for Majors: ☐ Elective for Majors: ☒

8. Justification: Create course as co-list for IST 444 in order to have ERP designation for ERP Graduate Certificate.

### 9. Semesters previously offered as an experimental course (101, 201, 301, 401):

10. List all co-listed courses, initialed by Dept. Chair(s) and Dean(s) if signatures do not appear below.

- 1) IST 444 4)  
 2) 5)  
 3) 6)

Recommended by Department Caroline Fisher  
 (Chair signature)

Date: 9/17/09

Recommended by School/College: DSCC  
Ray Hackett  
 (Dean signature)

Date: 9/23/09

Recommended by UMR Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_  
 (Action)

Recommended by Academic Council: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_  
 (Action)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7755-2009-CE-366-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Chemical Engineering

2. Discipline and Course Number: Present : Chem Eng 366 Proposed:

3. Course Title: Present: Chem Process Simulation

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department  Date: 9/14/09  
(Chair signature)Recommended by Discipline Specific Curricula Committee  Date: 9/25/09  
(Chair signature)Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

(Revised 1/31/08)



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7756-2009-Min-340-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mining and Nuclear Engineering

2. Discipline and Course Number: Present: Min Eng 340 Proposed:

3. Course Title: Present: Rock Mechanics II

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

(Chair signature)

Date:

09/15/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

9-18-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

(Revised 1/31/08)

09/21/09

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7757-2009-Min-308-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mining and Nuclear Engineering

2. Discipline and Course Number: Present: Min Eng 308

Proposed:

3. Course Title: Present: Drilling and Blasting

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

Recommended by Department

(Chair signature)

Date:

09/15/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

9-18-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

(Revised 1/31/08)

08/21/09

Effective Year: 2010  
Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7758-2009-Min-405-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mining and Nuclear Engineering  
2. Discipline and Course Number: Present: Min Eng 405 Proposed:

3. Course Title: Present: Non-Explosives Rock Frag  
Proposed:

Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)  
Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department: \_\_\_\_\_  
(Chair signature)

Date: 09/15/09

Recommended by Discipline Specific Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: 9-28-09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

08/21/08

Effective Year: 2010

Effective Term: Summer ☐ Fall ☒ Spring ☐

CC File # 7759-2009-BioSci-382-10

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☒Course Deletion ☐Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☒Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Biological Sciences

2. Discipline and Course Number: Present: 301

Proposed: 382

3. Course Title: Present: Neurobiology

Proposed:

Abbreviated Course Title: Neurobiology

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

**Proposed:** An intermediate course in cellular neurobiology. Emphasis will be placed on the unique properties of neurons and other excitable cells. Topics covered include the structure and biophysical properties of neurons, synaptic transmission, neurochemistry, signal transduction, neuropharmacology and neurodevelopment

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture: 3

Lab: NA

Total: 3

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present: Bio 211

Proposed: Bio 211

8. Required for Majors: ☐ Elective for Majors: ☒

9. Justification: Course has been taught twice as 301 and is now being given a regular number.

10. Semesters previously offered as an experimental course (101, 201, 301, 401): SP 2007, SP 2009

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

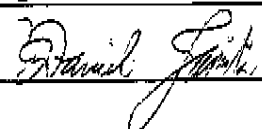
Recommended by Department

  
 (Chair signature)

Date: 9/11/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

Effective Year: 2010

Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7760-2009-SysE-368-34

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☒ Course Number ☐ Co-listing ☒

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: SysEng 368 Proposed:

3. Course Title: Present: System Engineering and Analysis I  
Proposed:**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

Present: The concepts of Systems Engineering are covered. The objective is to provide the basic knowledge and tools of transforming an operational need into a defined system configuration through the iterative process of analysis, system integration, synthesis, optimization, and design.

Proposed: The concepts of Systems Engineering are introduced through a project. Students work in virtual teams. The topics covered are architecture development, basic system architectural design techniques, functional decomposition, design and technical review objectives, and initial specifications.

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: 3 Lab: Total: 3  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present: Graduate or senior standing

Proposed:

8. Required for Majors: ☒ Elective for Majors: ☐

9. Justification: To provide better integration within the six systems engineering core courses.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department [Signature]Date: 09/29/09Recommended by Discipline Specific Curricula Committee [Signature]Date: 9-25-09

Approved by Curricula Committee: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: 2010

Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7761-2009-SysE-411-32

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒  
 Course Title ☒ Catalog Description ☒ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: SysEng 411 Proposed:

3. Course Title: Present: Systems Engineering Management

Proposed: Systems Engineering Capstone

Abbreviated Course Title: SysEng Capstone

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

Present: This course covers modern methods of effective management of complex systems, and systems of systems. Effective team building and integrated product and process development in a diverse and global work environment is the central theme. Topics include leadership, quality tools, concurrent engineering

Proposed: The topics covered are Systems Engineering Management Plan (SEMP), Systems Engineering processes, process re-engineering, standards, and systems engineering case studies. Students will apply the skills and theory that they mastered in previous five core courses to the analysis of assigned cases.

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: 3 Lab: Total: 3  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present: Graduate Standing

Proposed: SysEng 469, 412, and 413. Can be taken concurrently with SysEng 469 with consent of instructor.

8. Required for Majors: ☒ Elective for Majors: ☐

9. Justification: A capstone course is an ABET requirement for engineering graduate programs. SysEng 411 is restructured to fulfill this need and its name has been changed. This course integrates all the skills and theory mastered in previous five core courses.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department [Signature]

(Chair signature)

Recommended by Discipline Specific Curricula Committee [Signature]

(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: 09/09/09Date: 9-18-09

Date: \_\_\_\_\_

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: 2010

Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7762-2009-SysE-412-32

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒  
 Course Title ☐ Catalog Description ☒ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present : SysEng 412 Proposed:

3. Course Title: Present: Complex Engineering Systems Project Management  
Proposed:**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

Present: Explore issues related to planning, scheduling, and controlling complex engineering projects. Issues specific to distributed project planning and control, development of Systems Engineering Management Plan, Integrated Master Schedule and Plan, and monitoring technical performance, schedule and risk.

Proposed: The course topics include issues specific to distributed project management, team development, resource management, constraint planning, development of Integrated Master Schedule and Integrated Master Plan, monitoring technical performance, schedule, cost, and risk.

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: 3 Lab: Total: 3  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present: Graduate Standing

Proposed: SysEng 468. Can be taken concurrently with SysEng 468 with consent of instructor.

8. Required for Majors: ☒ Elective for Majors: ☐

9. Justification: To provide better integration within the six systems engineering core courses.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department [Signature]

Date: 09/09/09

Recommended by Discipline Specific Curricula Committee [Signature]

Date: 9-25-09

Approved by Curricula Committee: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7763-2009-SysE-413-32

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒  
 Course Title ☒ Catalog Description ☒ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present: SysEng 413 Proposed:

3. Course Title: Present: Economic Analysis of Systems Engineering Projects

Proposed: Economic Analysis for Systems Engineering

Abbreviated Course Title: Economic Analysis SysEng

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present: Economic evaluation of complex engineering systems for government defense and commercial industries; choosing system alternatives using engineering economic analysis; quantitative techniques for evaluating non-monetary consequences; life cycle costing; formal treatment of risk, uncertainty, and project cost monitoring.

Proposed: Methods of economic evaluation for engineering projects involving complex systems. Economic impacts on choosing system alternatives, life cycle costing, economic decisions involving risk and uncertainty, and engineering cost estimation for projects in government, defense, and commercial industries.

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture: 3	Lab:	Total: 3
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:

Present: Graduate Standing

Proposed: SysEng 368; can be taken concurrently with SysEng 368 with consent of instructor

8. Required for Majors: ☒ Elective for Majors: ☐

9. Justification: New title is more representative of course scope and topics. Changes to description provides for better integration with the five other systems engineering core courses.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

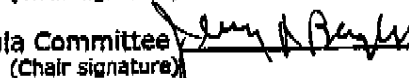
1)	2)	3)
4)	5)	6)

Recommended by Department

  
 (Chair signature)

Date: 09/09/09

Recommended by Discipline Specific Curricula Committee

  
 (Chair signature)

Date: 9-18-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:



Effective Year: 2010

Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7764-2009-SysE-468-32

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒  
 Course Title ☐ Catalog Description ☒ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE  
 2. Discipline and Course Number: Present: 468 *Sys Eng* Proposed:  
 3. Course Title: Present: Systems Engineering Analysis II

Proposed:

**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

**4. Catalog Description** (300 Character Spaces or Less.)

Present: The objective is to provide the advanced knowledge and tools of transforming an operational need into a defined system configuration through the iterative process of analysis, systems integration, synthesis, optimization and design. These tools and concepts are reinforced with projects/case studies.

Proposed: This course uses customized case studies based on team projects from prior courses. Topics covered include physical and functional analysis, analysis and traceability of requirements and specifications, verification and validation, optimization, simulation, and trade studies.

**5. If course requires field trip check box:** ☐

6. Credit Hours: Present: Lecture: 3 Lab: Total: 3  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present: none

Proposed: SysEng 368.

8. Required for Majors: ☒ Elective for Majors: ☐

9. Justification: In order to better prepare the graduate certificate and masters students in systems engineering.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department *[Signature]*

Date: 09/09/09

Recommended by Discipline Specific Curricula Committee *[Signature]*

Date: 9-18-09

Approved by Curricula Committee: *[Signature]*

Date: \_\_\_\_\_

Approved by Faculty Senate: *[Signature]*

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: 2010

Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7765-2009-SysE-469-32

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☐ Credit Hours ☐ Prerequisites ☒  
 Course Title ☐ Catalog Description ☒ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: EMSE

2. Discipline and Course Number: Present : SysEng 469 Proposed:

3. Course Title: Present: Systems Architecting  
Proposed:**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)

Present: The objective of the course is to provide the basic tools and concepts of systems architecting for complex systems design and operations. The following topics are covered: The need for the architect and architecting teams, the process of architecting, architecting methods, Design of architectures.

Proposed: The objective of the course is to provide the basic tools and concepts of architecting complex engineering systems. Systems thinking, ambiguity in system architecting, search as an architecting process, SysML and DoDAF Architecting Framework, System of Systems and Network-Centric Architectures.

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture: 3	Lab:	Total: 3
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:

Present: Graduate standing

Proposed: SysEng 468, can be taken concurrently with SysEng 468 with consent of instructor.

8. Required for Majors: ☒ Elective for Majors: ☐

9. Justification: To provide better Integration within the six systems engineering core courses.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department Date: 09/09/09Recommended by Discipline Specific Curricula Committee Date: 9/18/09

Approved by Curricula Committee: \_\_\_\_\_

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

Date: \_\_\_\_\_

(Revised 1/29/09)

Effective Year: 2010  
Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7766-2009-Geo-211-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Geological Science and Engineering  
2. Discipline and Course Number: Present: Geology 211 Proposed:

3. Course Title: Present: Optical Mineralogy  
Proposed:

Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)  
Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department Robert E. Landa (Chair signature)

Date: 9/9/09

Recommended by Discipline Specific Curricula Committee David Smith (Chair signature)

Date: 10/14/2009

Approved by Curricula Committee: \_\_\_\_\_ (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_ (Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7767-2009-411-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Geological Science and Engineering  
2. Discipline and Course Number: Present: Geology 411 Proposed:  
3. Course Title: Present: Advanced Mineralogy Proposed:

Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)  
Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department Robert A. Anderson

(Chair signature)

Date: 9/9/09

Recommended by Discipline Specific Curricula Committee David Fitch

(Chair signature)

Date: 10/14/2009

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7768-2009-CS-433-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Computer Science

2. Discipline and Course Number: Present: Comp Sci 433 Proposed:

3. Course Title: Present: Theory of Compiling

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department   
(Chair signature)Date: Sept 10, 09Recommended by Discipline Specific Curricula Committee   
(Chair signature)Date: 10/14/2009Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7769-2009-Emgt-317-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Engineering Management and Systems Engineering
2. Discipline and Course Number: Present: Eng Mgt 317 Proposed:
3. Course Title: Present: Compar & Multi-Natl Mgt Proposed:

#### Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

#### 4. Catalog Description (40 Words or Less)

Present:

Proposed:

#### 5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

#### 7. Prerequisites:

Present:

Proposed:

#### 8. Required for Majors: ☐ Elective for Majors: ☐

#### 9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

#### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

#### 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department [Signature]  
(Chair signature)

Date: 9/11/09

Recommended by Discipline Specific Curricula Committee [Signature]  
(Chair signature)

Date: 9-18-09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7770-2009-Emgt-389-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Engineering Management and Systems Engineering  
2. Discipline and Course Number: Present: Eng Mgt 389 Proposed:

3. Course Title: Present: Packaging Materials II  
Proposed:

Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)  
Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department [Signature] Date: 9/16/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee [Signature] Date: 9-18-09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

(Revised 1/31/08)

Effective Year: 2010

Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7774-2009-Cer-201-10

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☒ Course Deletion ☐ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Materials Science & Engineerin  
 2. Discipline and Course Number: Present: Proposed: Cer201  
 3. Course Title: Present:  
 Proposed: Special Topics

Abbreviated Course Title: Special topics  
 (24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (300 Character Spaces or Less.)  
 Present:

Proposed: This course is designed to give the department an opportunity to test a new course. Variable Title.

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total: 0-6

7. Prerequisites:  
 Present:

Proposed: variable

8. Required for Majors: ☐ Elective for Majors: ☒

9. Justification: To allow department to create experimental courses at the undergraduate level

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

- 1) 2) 3)  
 4) 5) 6)

Recommended by Department Whyme Hvalby

Recommended by Discipline Specific Curricula Committee George R. Bayless  
 (Chair signature)

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: 9/2/09

Date: 9-25-09

Date: \_\_\_\_\_

Date: \_\_\_\_\_

(Revised 1/29/09)



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7775-2009-Phys-4-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics

2. Discipline and Course Number: Present: Physics 4 Proposed:

3. Course Title: Present: Concepts in Physics  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

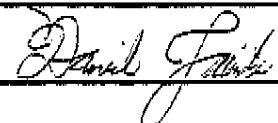
Recommended by Department



(Chair signature)

Date: 9-4-09

Recommended by Discipline Specific Curricula Committee



(Chair signature)

Date: 10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7776-2009-Phys-5-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics

2. Discipline and Course Number: Present: Physics 5

Proposed:

3. Course Title: Present: Concepts in Physics Lab

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

(Chair signature)

Date:

9-4-09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7777-2009-Phys-7-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics

2. Discipline and Course Number: Present: Physics 7 Proposed:

3. Course Title: Present: Environmental Physics II  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department   
(Chair signature)

Date: 9-4-09

Recommended by Discipline Specific Curricula Committee   
(Chair signature)

Date: 10/14/2009

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

09/21/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7778-2009-Phys-27-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics

2. Discipline and Course Number: Present: Physics 27 Proposed:

3. Course Title: Present: General Physics Lab

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department   
(Chair signature)

Date: 9-4-09

Recommended by Discipline Specific Curricula Committee   
(Chair signature)

Date: 10/14/2009

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

08/21/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7779-2009-Phys-28-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics

2. Discipline and Course Number: Present: Physics 28 Proposed:

3. Course Title: Present: General Physics Lab

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department

(Chair signature)

Date: 9-4-09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date: 10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/21/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7780-2009-Phys-337-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics

2. Discipline and Course Number: Present: Physics 337 Proposed:

3. Course Title: Present: Atmospheric Science

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

(Chair signature)

Date: 9-4-09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date: 10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

08/21/09

(Revised 1/31/08)

Effective Year: 2010  
 Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7781-2009-Phys-435-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Physics  
 2. Discipline and Course Number: Present: Physics 435 Proposed:

3. Course Title: Present: Cloud Physics  
 Proposed:

#### Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)  
 Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department [Signature]  
 (Chair signature)

Date: 9-4-09

Recommended by Discipline Specific Curricula Committee [Signature]  
 (Chair signature)

Date: 10/14/2009

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7782-2009-Chem-447-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Chemistry

2. Discipline and Course Number: Present: Chem 447 Proposed:

3. Course Title: Present: Statistical Thermodynamic

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department:

(Chair signature)

Date:

Recommended by Discipline Specific Curricula Committee:

(Chair signature)

Date:

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7783-2009-Chem-442-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Chemistry

2. Discipline and Course Number: Present : Chem 442

Proposed:

3. Course Title: Present: Neutron Diffraction

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

(Chair signature)

Date:

2/16/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7784-2009-Chem-431-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Chemistry

2. Discipline and Course Number: Present: Chem 431 Proposed:

3. Course Title: Present: Inorganic Reaction Mechs

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department:  Date: 9/16/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee:  Date: 10/14/2009  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7785-2009-Chem-421-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Chemistry

2. Discipline and Course Number: Present : Chem 421 Proposed:

3. Course Title: Present: Adv Organic Chemistry

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecturer: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department

(Chair signature)

Date:

2/6/05

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7786-2009-Chem-212-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Chemistry

2. Discipline and Course Number: Present: Chem 212

Proposed:

3. Course Title: Present: Science Teaching

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

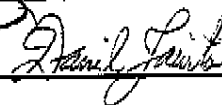


(Chair signature)

Date:

9/16/09

Recommended by Discipline Specific Curricula Committee



(Chair signature)

Date:

10/14/2009

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7787-2009-Socio-260-2C

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 260 Proposed:

3. Course Title: Present: Deviant Behavior  
 Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department                      Date: 8/31/09  
 (Chair signature)

Recommended by Discipline Specific Curricula Committee                      Date: 8/31/09  
 (Chair signature)

Approved by Curricula Committee:                      Date:                       
 (Chair signature)

Approved by Faculty Senate:                      Date:                       
 (Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7788-2009-Socio-281-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 281 Proposed:

3. Course Title: Present: Family and Marriage

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department \_\_\_\_\_

(Chair signature)

Date: 8/31/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_

(Chair signature)

Date: 8/31/09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7789-2009-Socio-100-2C

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 100 Proposed:

3. Course Title: Present: Special Problems

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.


10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department   
 (Chair signature)

Date: 8/31/09

Recommended by Discipline Specific Curricula Committee   
 (Chair signature)

Date: 8/31/09

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7790-2009-Socio-101-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 101 Proposed:

3. Course Title: Present: Special Topics

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department

(Chair signature)

Date:

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7791-2009-Socio-105-2C

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 105 Proposed:

3. Course Title: Present: Social Organization

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department



(Chair signature)

Date:

8/31/09

Recommended by Discipline Specific Curricula Committee



(Chair signature)

Date:

8/31/09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7792-2009-Socio-200-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 200

Proposed:

3. Course Title: Present: Special Problems

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

(Chair signature)

Date:

8/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

8/31/09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7793-2009-Socio-201-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 201 Proposed:

3. Course Title: Present: Special Topics

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department \_\_\_\_\_  
(Chair signature)

Date: 8/31/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_  
(Chair signature)

Date: 8/31/09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7794-2009-50010-210-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 210 Proposed:

3. Course Title: Present: Seminar

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

(Chair signature)

Date:

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7795-2009-Socio-300-24

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 300 Proposed:

3. Course Title: Present: Special Problems

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐


9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

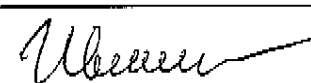
10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department  Date: 8/31/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee  Date: 8/31/09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7796-2009-Socio-301-26

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 301 Proposed:

3. Course Title: Present: Special Topics

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

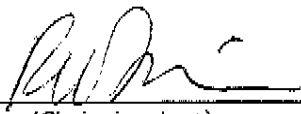
9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department   
(Chair signature)Date: 8/31/09Recommended by Discipline Specific Curricula Committee   
(Chair signature)Date: 8/31/09Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7797-2009-Socio-310-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Sociology 310 Proposed:

3. Course Title: Present: Seminar

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:


8. Required for Majors: ☐ Elective for Majors: ☐


9. Justification: The sociology program has been discontinued and there are no more students enrolled. All sociology courses are being eliminated because there are no plans to teach them in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department  Date: 8/31/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee  Date: 8/31/09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7798-2009-Ser-90-26

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : German 90 Proposed:

3. Course Title: Present: Scientific German

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department \_\_\_\_\_  
(Chair signature)

Date: 9/13/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_  
(Chair signature)

Date: 3/16/09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7799-2009-Ex-180-26

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present: German 180 Proposed:

3. Course Title: Present: Basic German Composition  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.


10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department   
(Chair signature)

Date: 9/13/02

Recommended by Discipline Specific Curricula Committee   
(Chair signature)

Date: 9/16/09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7800-2009-Dec-311-26

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : German 311 Proposed:

3. Course Title: Present: Adv German Conversation  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department

(Chair signature)

Date:

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7801-2009-Ger-402-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : German 402 Proposed:

3. Course Title: Present: Beg Ger For Grad Students

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department [Signature]

(Chair signature)

Date: 9/13/09

Recommended by Discipline Specific Curricula Committee [Signature]

(Chair signature)

Date: 9/16/09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7802-2009-Fen-378-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : French 378 Proposed:

3. Course Title: Present: French Theater

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

OK to drop  
as of

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department \_\_\_\_\_  
 (Chair signature)

Date: 9/16/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_  
 (Chair signature)

Date: 9/16/09

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7803-2009-Span-321-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Spanish 371 Proposed:

3. Course Title: Present: Surv Of Span Am Lit  
 Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department \_\_\_\_\_  
 (Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_  
 (Chair signature)

Date: 9/21/09

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7804-2009-Span-60-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐

Course Deletion ☒

Credit Hours ☐

Prerequisites ☐

Course Title ☐

Catalog Description ☐

Course Number ☐

Co-listing ☐

### Course Information

(1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Spanish 60

Proposed:

3. Course Title: Present: Hispanic Civilization

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐

Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department \_\_\_\_\_

(Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_

(Chair signature)

Date: 9/21/09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7805-2009-Mus-61-21

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Music 61

Proposed:

3. Course Title: Present: Fundamentals Of Music

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
 Present:

Proposed:

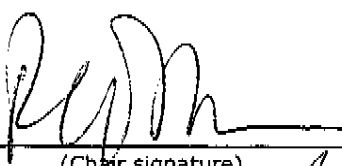
8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

Recommended by Department  Date: 9/17/09  
 (Chair signature)

Recommended by Discipline Specific Curricula Committee  Date: 9/21/09  
 (Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
 (Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
 (Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7806-2009-Mus-152-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present: Music 152

Proposed:

3. Course Title: Present: Survey Contemporary Mus

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department   
(Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee   
(Chair signature)

Date: 9/21/09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7807-2009-Mus-155-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Music 155 Proposed:

3. Course Title: Present: Music in the U. S.

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department \_\_\_\_\_ Date: 9/17/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_ Date: 9/21/09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7808-2009-Art-251-26

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Art 251

Proposed:

3. Course Title: Present: Genre Studies Film &amp; Lit

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department \_\_\_\_\_  
(Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_  
(Chair signature)

Date: 9/24/09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7809-2009-Art-255-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy

2. Discipline and Course Number: Present : Art 255 Proposed:

3. Course Title: Present: Script to Screen  
 Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.


10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department   
 (Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee   
 (Chair signature)

Date: 9/21/09

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7811-2009-Emph-202-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present: Engineering Mechanics 202 Proposed:  
 3. Course Title: Present: COOP Engr Training  
 Proposed:

**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

## 4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

## 9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

## 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

## 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

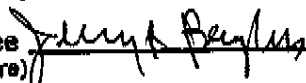
Recommended by Department



(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee



(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7812-2009-Emech-311-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 311 Proposed:

3. Course Title: Present: Introd To Continuum Mech

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

08/19/09

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Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7813-2009-Emech-341-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present: Engineering Mechanics 341 Proposed:  
 3. Course Title: Present: Exper Stress Analysis I  
 Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

## 4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

## 9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

## 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

## 11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

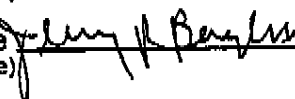
Recommended by Department

  
 (Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

  
 (Chair signature)

Date: 10/6/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File #7814-2009-Emerit-313-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 373 Proposed:
3. Course Title: Present: Advance Dynamics

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department

*Robert M. Miller*  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

*James R. Bayler*  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7815-2009-Enach-390-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present : Engineering Mechanics 390 Proposed:  
 3. Course Title: Present: Undergraduate Research  
 Proposed:

**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

**4. Catalog Description (40 Words or Less)**

Present:

Proposed:

**5. If course requires field trip check box:** ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:  
 7. Prerequisites:  
 Present:

Proposed:

**8. Required for Majors:** ☐ **Elective for Majors:** ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

**10. Semesters previously offered as an experimental course (101, 201, 301, 401):****11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.**

- 1) 2) 3)  
 4) 5) 6)

Recommended by Department

  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7816-2009-Emech-463-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 463 Proposed:
3. Course Title: Present: Theo Of Random Vibration  
Proposed:

#### Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

#### 4. Catalog Description (40 Words or Less)

Present:

Proposed:

#### 5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

#### 7. Prerequisites:

Present:

Proposed:

#### 8. Required for Majors: ☐ Elective for Majors: ☐

#### 9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

#### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

#### 11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department Richard M. Madsen

(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee James R. Bayless

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

From: 573 341 4362

Page: 7/34

Date: 9/25/2009 10:58:15 AM

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7817-2009-Enach-487-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 487 Proposed:

3. Course Title: Present: Finite Element Approx III

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7819-2009-Emech-10-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 10 Proposed:

3. Course Title: Present: Intro to Engineering

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

  
(Chair signature)

Date:

08/31/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date:

10-6-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7820-2009-Emach-201-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 201 Proposed:
3. Course Title: Present: Special Topics

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department

*Robert M. Miller*  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

*James R. Bayless*  
(Chair signature)

Date: 06-09

Approved by Curricula Committee:

\_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

\_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

08/19/09

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7821-2009-Emech-300-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present : Engineering Mechanics 300 Proposed:
3. Course Title: Present: Special Problems  
Proposed:

#### Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department Robert K. Miller  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee Jimmy N. Bayler  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7822-2009-Emech-301-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 301 Proposed:
3. Course Title: Present: Special Topics  
Proposed:

#### Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

#### 4. Catalog Description (40 Words or Less)

Present:

Proposed:

#### 5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

#### 7. Prerequisites: Present:

Proposed:

#### 8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

#### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

#### 11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department *Robert M. Miller* Date: 08/31/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee *Jerry A. Bergman* Date: 10/6/09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7823-2009-Eng-mech-307-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 307 Proposed:
3. Course Title: Present: Finite Element Approx I  
Proposed:

#### Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

#### 4. Catalog Description (40 Words or Less)

Present:

Proposed:

#### 5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

#### 7. Prerequisites: Present:

Proposed:

#### 8. Required for Majors: ☐ Elective for Majors: ☐

#### 9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

#### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

#### 11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department

*Robert M. Misha*  
(Chair signature)

Date: 09/31/09

Recommended by Discipline Specific Curricula Committee

*Jimmy R. Buehler*  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7824-2009-Emech-310-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 310 Proposed:

3. Course Title: Present: Seminar

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

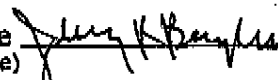
4) 5) 6)

Recommended by Department

  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 10/6/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)



From: 573 341 4362

Page: 14/34

Date: 9/25/2009 10:58:17 AM

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7825-2009-Emech-322-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 322 Proposed:

3. Course Title: Present: Intro to Solid Mechanics

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7826-2009-Emech-329-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 329 Proposed:

3. Course Title: Present: Smart Materials and Sensor

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department Robert M. Misha

(Chair signature)

Date: 08/31/09Recommended by Discipline Specific Curricula Committee James H. Bayler

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7827-2009-Emech-334-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present: Engineering Mechanics 334 Proposed:  
 3. Course Title: Present: Stability of Engr Struct  
 Proposed:

**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

**4. Catalog Description (40 Words or Less)**

Present:

Proposed:

**5. If course requires field trip check box:** ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

**7. Prerequisites:**  
Present:

Proposed:

**8. Required for Majors:** ☐ **Elective for Majors:** ☐**9. Justification:** The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.**10. Semesters previously offered as an experimental course (101, 201, 301, 401):****11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.**

1) 2) 3)  
 4) 5) 6)

Recommended by Department

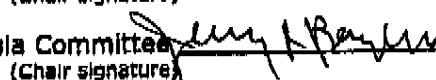


(Chair signature)

Date:

08/31/09

Recommended by Discipline Specific Curricula Committee

  
(Chair signature)

Date:

10-6-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

08/19/09

(Revised 1/31/08)

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Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7828-2009-Emech-336-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present: Engineering Mechanics 336 Proposed:  
 3. Course Title: Present: Fracture Mechanics  
 Proposed:

**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

**4. Catalog Description (40 Words or Less)**

Present:

Proposed:

**5. If course requires field trip check box:** ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

**7. Prerequisites:**  
Present:

Proposed:

**8. Required for Majors:** ☐ **Elective for Majors:** ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

**10. Semesters previously offered as an experimental course (101, 201, 301, 401):****11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.**

1) 2) 3)  
 4) 5) 6)

Recommended by Department Robert Misha  
(Chair signature)Date: 08/31/09Recommended by Discipline Specific Curricula Committee Jimmy R. Beyer  
(Chair signature)Date: 10-6-09Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7829-2009-Emack-339-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present : Engineering Mechanics 337 Proposed:
3. Course Title: Present: Fatigue Analysis  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

## 4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

## 9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

## 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

## 11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

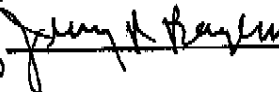
Recommended by Department

  
 (Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File #7830-2009-Emech-361-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present : Engineering Mechanics 361 Proposed:  
 3. Course Title: Present: Vibrations I  
 Proposed:  
 Abbreviated Course Title:  
 (24 Spaces or Less. Only needed for New Courses or Title Changes.)  
 4. Catalog Description (40 Words or Less)  
 Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:  
 7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

## 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

## 11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

- 1) 2) 3)  
 4) 5) 6)

Recommended by Department

*Robert K. Middle*  
 (Chair signature)

Date:

08/31/09

Recommended by Discipline Specific Curricula Committee

*James H. Banger*  
 (Chair signature)

Date:

10-6-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

08/19/09

(Revised 1/31/08)

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Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7831-2009-Emech-381-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐

Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 381 Proposed:

3. Course Title: Present: Intro Comp Mtrls/Struc  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department

*Robert M. Nichols*  
(Chair signature)

Date:

08/31/09

Recommended by Discipline Specific Curricula Committee

*James H. Hargis*  
(Chair signature)

Date:

10-6-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

08/19/09

(Revised 1/31/08)

Effective Year: 2010  
Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7832-2009-Enrich-400-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 400 Proposed:
3. Course Title: Present: Special Problems  
Proposed:
- Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)  
Present:

Proposed:

### 5. If course requires field trip check box: ☐

- |                  |           |          |      |        |
|------------------|-----------|----------|------|--------|
| 6. Credit Hours: | Present:  | Lecture: | Lab: | Total: |
|                  | Proposed: | Lecture: | Lab: | Total: |
7. Prerequisites:  
Present:

Proposed:

### 8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

### 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

- |    |    |    |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Recommended by Department *Robert M. Miller*  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee *James D. Boyles*  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7833-2009-Enoch-401-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present: Engineering Mechanics 401 Proposed:  
 3. Course Title: Present: Special Topics  
 Proposed:  
 Abbreviated Course Title:  
 (24 Spaces or Less. Only needed for New Courses or Title Changes.)  
 4. Catalog Description (40 Words or Less)  
 Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:  
 7. Prerequisites:  
 Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

## 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

## 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

- 1) 2) 3)  
 4) 5) 6)

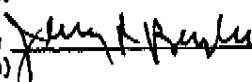
Recommended by Department

  
 (Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10/6/09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7834-2009-Emech-408-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering
2. Discipline and Course Number: Present: Engineering Mechanics 408 Proposed:
3. Course Title: Present: Finite Element Approx II  
Proposed:
- Abbreviated Course Title:  
(24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)  
Present:

Proposed:

### 5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

### 7. Prerequisites: Present:

Proposed:

### 8. Required for Majors: ☐ Elective for Majors: ☐

### 9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

### 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department Robert M. Medke Date: 08/31/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee James H. Bunker Date: 10-6-09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File #7835-2009-Ennech-410-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
2. Discipline and Course Number: Present: Engineering Mechanics 410 Proposed:

3. Course Title: Present: Seminar  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)  
Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department Robert M. ...  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee John A. Baylis  
(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7836-2009-Erech-431-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present: Engineering Mechanics 431 Proposed:  
 3. Course Title: Present: Theory of Plates

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box:
- ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

7. Prerequisites:
- 
- Present:

Proposed:

8. Required for Majors:
- ☐
- Elective for Majors:
- ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
 4) 5) 6)

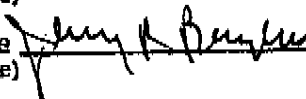
Recommended by Department

  
 (Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7837-2009-Emech-432-26

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present : Engineering Mechanics 432 Proposed:

3. Course Title: Present: Theory of Shells

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:

Proposed: Lecture: Lab: Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department Robert M. Misha

(Chair signature)

Date: 08/31/09Recommended by Discipline Specific Curricula Committee Jerry H. Bayless

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7838-2009-Ensch-436-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
2. Discipline and Course Number: Present: Engineering Mechanics 436 Proposed:

3. Course Title: Present: Adv Fracture Mechanics  
Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1) 2) 3)  
4) 5) 6)

Recommended by Department  Date: 08/31/09  
(Chair signature)

Recommended by Discipline Specific Curricula Committee  Date: 10-6-09  
(Chair signature)

Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7839-2009-Enrich-402-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 462 Proposed:

3. Course Title: Present: Theory of Vibrations II

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

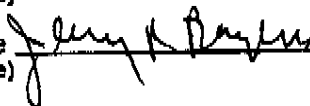


(Chair signature)

Date: 09/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7840-2009-Lmach-483-20

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐

Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 483 Proposed:

3. Course Title: Present: Mech/Composite Materials

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:	Present:	Lecture:	Lab:	Total:
	Proposed:	Lecture:	Lab:	Total:

7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)	2)	3)
4)	5)	6)

Recommended by Department Robert Michals

(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee James A. Bayless

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_

(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

08/19/09

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Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7841-2009-Enech-484-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering  
 2. Discipline and Course Number: Present : Engineering Mechanics 484 Proposed:  
 3. Course Title: Present: Analysis Lamin Comp Stru  
 Proposed:

**Abbreviated Course Title:**

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

**4. Catalog Description (40 Words or Less)**

Present:

Proposed:

**5. If course requires field trip check box:** ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:

**7. Prerequisites:**  
Present:

Proposed:

**8. Required for Majors:** ☐ **Elective for Majors:** ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

**10. Semesters previously offered as an experimental course (101, 201, 301, 401):****11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.**

1) 2) 3)  
 4) 5) 6)

Recommended by Department

(Chair signature)

Date:

08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date:

10-6-09

Approved by Curricula Committee:

(Chair signature)

Date:

Approved by Faculty Senate:

(Chair signature)

Date:

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7842-2009-Emech-490-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 490 Proposed:

3. Course Title: Present: Research

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

Recommended by Department

(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

08/19/09

(Revised 1/31/08)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7843-2009-Ench-493-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 493 Proposed:

3. Course Title: Present: Oral Examination

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐6. Credit Hours: Present: Lecture: Lab: Total:  
Proposed: Lecture: Lab: Total:7. Prerequisites:  
Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, initiated by Dept. Chair, if signature does not appear below.

1) 2) 3)

4) 5) 6)

Recommended by Department Robert Michals Date: 08/31/09  
(Chair signature)Recommended by Discipline Specific Curricula Committee Jerry A. Bayles Date: 10-6-09  
(Chair signature)Approved by Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)Approved by Faculty Senate: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair signature)

(Revised 1/31/88)

08/19/09

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Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7844-2009-Emech-495-20

**Course Change Form (CC)**

This form is for creating or modifying permanent courses.

**Course Changes** (Check all changes.)New Course ☐Course Deletion ☒Credit Hours ☐Prerequisites ☐Course Title ☐Catalog Description ☐Course Number ☐Co-listing ☐**Course Information** (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Mechanical and Aerospace Engineering

2. Discipline and Course Number: Present: Engineering Mechanics 495 Proposed:

3. Course Title: Present: Continuous Registration

Proposed:

Abbreviated Course Title:

(24 Spaces or Less. Only needed for New Courses or Title Changes.)

4. Catalog Description (40 Words or Less)

Present:

Proposed:

5. If course requires field trip check box: ☐

6. Credit Hours:

Present:

Lecture:

Lab:

Total:

Proposed:

Lecture:

Lab:

Total:

7. Prerequisites:

Present:

Proposed:

8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: The engineering mechanics programs have all been discontinued and there are no more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH.

10. Semesters previously offered as an experimental course (101, 201, 301, 401):

11. List all co-listed courses, Initialed by Dept. Chair, if signature does not appear below.

1)

2)

3)

4)

5)

6)

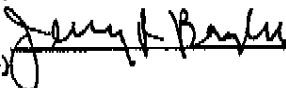
Recommended by Department

  
(Chair signature)

Date: 08/31/09

Recommended by Discipline Specific Curricula Committee

(Chair signature)



Date: 10-6-09

Approved by Curricula Committee:

(Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate:

(Chair signature)

Date: \_\_\_\_\_

(Revised 1/31/08)

08/19/09

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Effective Year: 2010  
 Effective Term: Summer ☐ Fall ☐ Spring ☒

CC File # 7856-2009-Musc-171-2

## Course Change Form (CC)

This form is for creating or modifying permanent courses.

### Course Changes (Check all changes.)

New Course ☐ Course Deletion ☒ Credit Hours ☐ Prerequisites ☐  
 Course Title ☐ Catalog Description ☐ Course Number ☐ Co-listing ☐

### Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.)

1. Department: Arts, Languages and Philosophy
2. Discipline and Course Number: Present : Music 171 Proposed:
3. Course Title: Present: Intro Electronic Music Proposed:  
 Abbreviated Course Title:  
 (24 Spaces or Less. Only needed for New Courses or Title Changes.)
4. Catalog Description (40 Words or Less)  
 Present:

Proposed:

### 5. If course requires field trip check box: ☐

6. Credit Hours: Present: Lecture: Lab: Total:  
 Proposed: Lecture: Lab: Total:
7. Prerequisites:  
 Present:

Proposed:

### 8. Required for Majors: ☐ Elective for Majors: ☐

9. Justification: This course has not been taught within the past 10 years, and there are no plans to teach it in the near future.

### 10. Semesters previously offered as an experimental course (101, 201, 301, 401):

### 11. List all co-listed courses, initialed by Dept. Chair, if signature does not appear below.

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)

Recommended by Department \_\_\_\_\_  
 (Chair signature)

Date: 9/17/09

Recommended by Discipline Specific Curricula Committee \_\_\_\_\_  
 (Chair signature)

Date: 9/24/09

Approved by Curricula Committee: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Approved by Faculty Senate: \_\_\_\_\_  
 (Chair signature)

Date: \_\_\_\_\_

Effective Year: 2010

EC File # 2202-SP2010-BioSci-401

Effective Term: Summer ☐ Fall ☐ Spring ☒

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1

Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: <sup>Bio</sup>401

Course Title: Advanced Toxicology

Abbreviated Title (24 spaces or less): <sup>ADVANCED</sup>Adv Toxicology

Instructor(s): Yue-wern Huang

Credit Hours:      Lecture: 3      Lab: 0      Total: 3

Prerequisites: Graduate standing and Bio 211 and Bio 231

Semester(s) previously taught: SP 2008

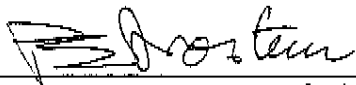
### Brief Course Description: (40 words or less)

A study of natural and man-made toxicants, various possible routes of exposure, absorption, distribution, biotransformation, specific target sites, and mechanisms involved in elicitation of toxic effects, as well as detoxification and excretion. Independent research projects and primary literature readings are required.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- |    |    |    |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: \_\_\_\_\_



(Chair Signature)

Date: \_\_\_\_\_

10/12/09

Discipline Specific Curricula Committee: \_\_\_\_\_



(Chair signature)

Date: \_\_\_\_\_

10/14/2009

Curricula Committee: \_\_\_\_\_

(Chair Signature)

Date: \_\_\_\_\_

EC File # 2203- 5p 2010-GE-201

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1  
Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Geological Sciences and Engineering

Discipline and Course Number: GE 201

Course Title: Geology and Engineering of Ancient and Modern Peru

Abbreviated Title (24 spaces or less): Geo Engineering of Peru

Instructor(s): GE faculty

Credit Hours:      Lecture: 1      Lab:      Total:

Prerequisites:

Semester(s) previously taught:

Brief Course Description: (40 words or less)

A study of the geological engineering of the Cuzco-Machu Picchu corridor, including the inter-relations of geology, climate, archeology, and history. A technical report and a week-long field trip to Peru during Spring Break are required.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1)      2)      3)  
4)      5)      6)Department Chair: NM Robert - [Signature] TH Date: 9/1/09  
(Chair Signature)Discipline Specific Curricula Committee: Jerry [Signature] Date: 9-2-09  
(Chair signature)Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair Signature)

Effective Year: 2010

Effective Term: Summer ☒ Fall ☐ Spring ☒

EC File # 2204-Sp2010-GE-401

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1  
Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: GSE

Discipline and Course Number: GE 401

Course Title: Surface Waves &amp; Ground Penetrating Radar

Abbreviated Title (24 spaces or less): MASW and GPR

Instructor(s): Anderson

Credit Hours: Lecture: 2 Lab: 1 Total:

Prerequisites: GE 50 or CE 215 or equivalent, and graduate standing

Semester(s) previously taught: taught as 301

Brief Course Description: (40 words or less)

Basic theory and the acquisition, processing and interpretation of surface waves (MASW and ReMi) and ground penetrating radar (GPR) data are covered. Emphasis is placed on geotechnical and structural applications of these non-invasive imaging technologies. Numerous case studies are presented in order to illustrate the utility of these geophysical tools.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)  
4) 5) 6)Department Chair: WM Robert C. Smith JH  
(Chair Signature)Date: 7/1/09Discipline Specific Curricula Committee: James D. Boyles  
(Chair signature)Date: 9-2-09Curricula Committee: \_\_\_\_\_  
(Chair Signature)

Date: \_\_\_\_\_

(Revised 1/31/2008)

08/31/09



Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

EC File # 2205-Sp2010-Cer-201

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1  
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Materials Science &amp; Engineering

Discipline and Course Number: Cer 201

Course Title: Applied Glass Forming

Abbreviated Title (24 spaces or less): Applied Glass Forming

Instructor(s): Mary Reidmeyer

Credit Hours: Lecture: 1.0 Lab: 1.0 Total: 2.0

Prerequisites: Cer 104 or Met 125; freshmen, sophomore, or junior only or by instructor permission.

Semester(s) previously taught: n/a

Brief Course Description: (40 words or less)

Examines the properties and behavior of molten glass along with basic forming techniques, including off-hand shaping, molding and casting.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)  
4) 5) 6)

Department Chair: Wayne Huebner TWA Date: 9/2/09  
(Chair Signature)

Discipline Specific Curricula Committee: Jerry R. Reilly Date: 9/2/09  
(Chair signature)

Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair Signature)

(Revised 1/31/2008)

09/02/09

**Cer 201  
Applied Glass Forming  
SP2010**

**Class Time and Place:**

Arranged  
G3 Fulton Hall

**Instructor:**

Mary R. Reidmeyer  
Associate Teaching Professor  
Department of Materials Science and Engineering  
Office: 143 McNutt Hall  
Ph. 573.341.7519  
Email: [marvrr@mst.edu](mailto:marvrr@mst.edu)

**Office Hours and Appointments:**

- I welcome appointments and you may make an appointment by email.

**Course Description:**

Examines the properties and behavior of molten glass along with basic forming techniques, including off-hand shaping, molding and casting.

**Educational Objective:**

At the conclusion of this course, the student will possess a basic knowledge of glass behavior at elevated temperatures.

**Textbook:** James McKelvey, The Art of Fire, (Third Degree Press (Mira Press), St. Louis, MO 2006).  
It is necessary that you purchase this text and DVD set. It covers both safety and fundamentals of glassblowing.

**Additional Texts:** You may also find the following texts helpful:

Edward T. Schmid, Beginning Glassblowing, (Glass Mountain Press, Bellingham, WA, 1998).

Edward T. Schmid, Advanced Glassworking Techniques, (Glass Mountain Press, Bellingham, WA, 1997).

Henry Hale, Glass Notes. A Reference for The Glass Artist, (Franklin Mills Press, Kent, OH, 2006).

**Course Prerequisites:** Cer 104 or Met 125; freshmen, sophomore, or junior level only (or by instructor permission).

**Student Success and Organization:**

Reading the assigned chapters and viewing the DVD chapters before class are essential. It is much easier to learn in the lab if you know the terminology and have developed a sense for the technique we are going to learn that session. Short quizzes will be used to encourage your preparation for class.

**Attendance Policy:**

Please review the S&T attendance and drop policy under Student Academic Regulations at [http://registrar.mst.edu/documents/academic\\_regulations2007-2008.pdf](http://registrar.mst.edu/documents/academic_regulations2007-2008.pdf). Because this is a hands-on, in-class exercise class, your participation is mandatory.

**Shop Etiquette and Safety:**

Everyone has to share shop facilities and equipment. Therefore it is important to return items to their proper location, clean up any broken glass, report damaged or broken equipment, properly dispose of beverage containers, and in general leave the shop in a condition that the next users can come in and operate in a clean organized facility. Failure to exhibit acceptable etiquette will result in a loss of possible credit.

Always keep safety at the forefront by wearing your safety glasses, Kevlar protection where appropriate, natural fiber clothing (avoid synthetics as they can melt to your skin) and closed toe shoes.

**Grading Policy:**

*Grading system:* A: 90 – 100  
B: 80 – 89  
C: 70 – 79  
D: 60 – 69  
F: < 60

From: 573 341 4362 Page: 1/1 Date: 9/25/2009 11:27:15 AM

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

EC File # 2207-Sp2010-GE-401

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1  
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Geological Sciences and Engineering

Discipline and Course Number: GE 401

Course Title: Inca Civilization Geotechnical Engineering Practices

Abbreviated Title (24 spaces or less): Inca Geo Eng Practices

Instructor(s): Anderson, Luna and Gertsch

Credit Hours:      Lecture: 3      Lab:      Total:

Prerequisites: GE 50 or CE 215 or equivalent, and graduate standing

Semester(s) previously taught:

Brief Course Description: (40 words or less)

An in-depth study of geotechnical engineering practices within the Cuzco-Machu Picchu corridor, with emphasis on the inter-relationships between tectonics, geology, geomorphology, climate, hydrology, agriculture, quarrying, construction practices, irrigation, culture and history. A week-long field trip to Peru during Spring Break is required.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) CV ENG 401 *WP 9/9/09* 2) 3)

4) 5) 6)

Department Chair:

*nm*

*Robert Anderson*  
(Chair Signature)

*MA*

Date:

*9/1/09*

Discipline Specific Curricula Committee:

*John R. Anderson*  
(Chair Signature)

Date:

*10-6-09*

Curricula Committee:

(Chair Signature)

Date:

08/31/09

(Revised 1/31/2008)

Effective Year: 2010

Effective Term: Summer ☐ Fall ☐ Spring ☒

EC File # 2208-SP2010-EE-301

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1  
Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Electrical and Computer Engineering

Discipline and Course Number: EE 301

Course Title: Electric-Drive Vehicles

Abbreviated Title (24 spaces or less): Electric-Drive Vehicles

Instructor(s): Ferdowsi

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: Senior Standing in Science or Engineering

Semester(s) previously taught: none

Brief Course Description: (40 words or less)

This course covers introductory topics related to the understanding and analysis of electric, hybrid, and plug-in hybrid power trains. In specific, classification of hybrid drivetrains, driving cycles, energy storage systems, mechanical coupling devices, automotive applications of fuel cells, and introduction to power converters will be covered.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- |    |    |    |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair: Kelm Eicken (Chair Signature) Date: 21 Sep 09

Discipline Specific Curricula Committee: Jerry D. Benner (Chair signature) Date: 10-6-09

Curricula Committee: \_\_\_\_\_ (Chair Signature) Date: \_\_\_\_\_

Effective Year: 2010

Effective Term: Summer ☐ Fall ☒ Spring ☒

EC File # 2209-Sp2010-Stat-401

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1  
Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. Co-listed offerings should be submitted on one form, originating from the primary discipline.

Department: Mathematics and Statistics

Discipline and Course Number: STAT 401

Course Title: Survival Analysis

Abbreviated Title (24 spaces or less): Survival Analysis

Instructor(s): Akim Adekpedjou

Credit Hours: Lecture: 3 Lab: Total: 3

Prerequisites: Stat 343

Semester(s) previously taught: SP08

**Brief Course Description: (40 words or less)**

Students will be introduced to methods for analyzing survival time data. Topics include survival time models, survival distributions, mathematical and graphical evaluations of goodness of fit, comparison of treatment groups, proportional hazards models, censoring mechanisms, recurrent events, actuarial science applications.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1)	2)	3)
4)	5)	6)

Department Chair: Leon Hall (Chair Signature) Date: 9/23/09Discipline Specific Curricula Committee: David Smith (Chair signature) Date: 10/14/2009

Curricula Committee: \_\_\_\_\_ (Chair Signature) Date: \_\_\_\_\_

From: 573 341 4362      Page: 14/16      Date: 10/9/2009 10:34:10 AM

Effective Year: 2010  
Effective Term: Summer ☐ Fall ☒ Spring ☐

EC File # 2217-F32010-BruSci-301

## Experimental Course Form (EC)

**This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:**

**Summer and Fall Semester Offerings - January 1**  
**Spring Semester Offerings - August 1**

**An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.***

**Department:** Biological Sciences

**Discipline and Course Number: BIOSCI301**

**Course Title:** Cancer Cell Biology

**Abbreviated Title (24 spaces or less):** Cancer Cell Biology

**Instructor(s):** Katie Shannon

**Credit Hours:**      **Lecture:** 3                      **Lab:** 0                      **Total:** 3

**Prerequisites:** Cell Biology (BIOSCI211)

**Semester(s) previously taught:** FS08

**Brief Course Description: (40 words or less)**

**Advanced cell biology course** examining cellular processes that go awry during tumorigenesis. We will discuss cell cycle controls, signal transduction pathways, DNA repair, telomerase, apoptosis, cell migration and adhesion that are altered in cancer cells.

**List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.**

1)	2)	3)
4)	5)	6)

Department Chair: Robert S. Austin Date: 9/28/09

Department Chair: \_\_\_\_\_ (Chair Signature)  
Discipline Specific Curricula Committee: \_\_\_\_\_ (Chair signature) Date: 10/14/2009

Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair Signature)

09/28/09

(Revised 1/31/2008)

Effective Year: 2010  
 Effective Term: Summer ☐ Fall ☒ Spring ☐

EC File # 2218-FS2010-BioSci-401

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings - January 1  
 Spring Semester Offerings - August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: BIOSCI401

Course Title: Advanced Cancer Cell Biology

Abbreviated Title (*24 spaces or less*): <sup>Adv.</sup> Cancer Cell Biology

Instructor(s): Katie Shannon

Credit Hours: Lecture: 3 Lab: 0 Total: 3

Prerequisites: Cell Biology (BIOSCI211)

Semester(s) previously taught: FS08

Brief Course Description: (40 words or less)

*6/25/09*  
 Advanced cell biology course examining cellular processes that go awry during tumorigenesis. We will discuss cell cycle controls, signal transduction pathways, DNA repair, telomerase, apoptosis, cell migration and adhesion that are altered in cancer cells. In addition to lecture, will include a weekly section to examine primary cancer literature.

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

1) 2) 3)  
 4) 5) 6)

Department Chair: \_\_\_\_\_

(Chair Signature)

Date: 9/28/09

Discipline Specific Curricula Committee: \_\_\_\_\_

(Chair signature)

Date: 10/14/2009

Curricula Committee: \_\_\_\_\_

(Chair Signature)

Date: \_\_\_\_\_



Effective Year: 2010

Effective Term: Summer ☐ Fall ☒ Spring ☐

EC File # 2221-F32010-BioSci-101

## Experimental Course Form (EC)

This form must be filed with the Secretary to the Campus Curricula Committee, after the department chair's notation, by the appropriate deadline. Filing deadlines for inclusion in the initial release of the Schedule of Classes are as follows:

Summer and Fall Semester Offerings – January 1

Spring Semester Offerings – August 1

An EC form must be submitted each semester it is to be offered, not to exceed two offerings. An experimental course that is required should be submitted on a CC form. *Co-listed offerings should be submitted on one form, originating from the primary discipline.*

Department: Biological Sciences

Discipline and Course Number: BIOSCI101

Course Title: Genetics: Decoding your genes

Abbreviated Title (24 spaces or less): Genetic Issues

Instructor(s): Katie Shannon

Credit Hours:      Lecture: 3      Lab: 0      Total: 3

Prerequisites: none

Semester(s) previously taught: FS06 (taught as BIOSCI201)

Brief Course Description: (40 words or less)

We will explore the questions: What are genes? How do our genes affect our health? How are genes inherited? What are the societal implications of genetic knowledge? What is the Human Genome Project and what can we learn from it? (Does not fulfill requirement for Biology majors)

List all co-listed courses: Include initials of Dept. Chair, if signature is not already included below.

- |    |    |    |
|----|----|----|
| 1) | 2) | 3) |
| 4) | 5) | 6) |

Department Chair:  Date: 9/29/09  
(Chair Signature)

Discipline Specific Curricula Committee:  Date: 10/24/09  
(Chair signature)

Curricula Committee: \_\_\_\_\_ Date: \_\_\_\_\_  
(Chair Signature)