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# 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.

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Office of the Registrar • 103 Parker Hall • 300 West 13th Street • Rolla, MO 65409-0930 Phone: 573-341-4181 • Fax: 573-341-4362 • Email: registrar@mst.edu • Web: http://registrar.mst.edu From: 573 341 4362 Page: 2/7 Date: 10/15/2009 9:50:43 AM



# Missouri University of Science and Technology

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- 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.

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# Missouri University of Science and Technology

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- 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 Sppring 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.

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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.

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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.

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# Missouri University of Science and Technology

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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.

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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.

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	'
Effective Year: 2010  Effective Term: Summer  Fall  Spring    (Creating or modifying a degree program must be effective for a Fall term	:#0338-2009-05-000-0 )
Degree Change Form	(DC)
This form is to be used for creating or modifying degree programs,	emphasis areas, and minora.
Title of degree program, emphasis area, or minor: BS	
Department: Computer Science	
Briefly describe action requested (Attach documentation as The requirement of an elective in humanities or social sciences will elective from the Philosophy department. The course options are I Thus, in the second semester of senior year in the Sample Course Science Elective" should be replaced with "Philosophy Elective" and "Phil 225 or 235 or 340 or 368".	be changed to a required Phil 225 or 235 or 340 or 368. of Study, "Humanities/Social
This change is needed in order to responde to ABET's concerns abo curriculum.	out ethics instruction in the CS
Recommended by Department: (Chair signature)	Date: 500 809
Recommended by: Sand Falish Discipline Specific Curricula Committee (Chair signature)	Date: <u>\6/14/2</u> 000
Approved by Curricula Committee:(Chair signature)	Date:
Approved by Faculty Senate:(Chair signature)	Date;

(Revised 1/31/2008)

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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

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. (Colisted 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, Philas 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)

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: Iteraton 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: Co 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

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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.

### 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 Feculty:**

Thomas Baird, M.S., UMR Billy Gillett, Ph.D., Oklahoma State Raiph E. Lee, M.A., Indiana Howard D. Pyron, Ph.D., Yowa 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 Stoecker, 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

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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.	SENIOR YEAR First Semester Credit Cmp Sc Electives (1)
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.	Second Semester Cmp Sc Electives (**) Eng/Science Elective (**) Humanities/Social Science Elective (**) Free Elective (**)  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
Sample Course of Study	selected from: Chem 1, 2 and 4; Chem 5; Bio Sc 110 and 112; Physics 9 (or 11) and 10; Geology 51
FRESHMAN YEAR First Semester Credit	and 53; Geology 52 and 54; and 810 Sc 115 and
Cmp Sc 1-Intro to Computer Science(14)	116. Any nine hours that include courses from at least two
Cmp Sc 53-Intro to Programming	of the following areas: economics, history, political
English 20-Exposition & Argumentation3	science, psychology, or sociology. One course must
Math 8-Calculus with Analytic Geometry I	satisfy the Missouri and U.S. Constitution requirement. (see Cmp Sc web page)
16	" Physics 23 and 24 or Physics 21-22/27 and Physics 25-
Second Semester Cmp Sc 153-Data Structures	26/28 * Sp & M5 85 or Sp & MS 283.
Cmp Sc 128-Discrete Math for Cmp Sc	One literature and one humanities course in any of
Math 21-Calculus with Analytic Geometry #5	the humanities.  Stat 215 or 343.
Laboratory science course(s) (1)	<sup>7</sup> Math 203 or 208.
SOPHOMORE YEAR	<ul> <li>Courses chosen from any field so that 128 hours are completed. These and only these courses may be</li> </ul>
First Semester Credit Cmp Sc 253-Algorithms	taken pass/fail and only one course may be taken
Social Science Elective <sup>(2)</sup>	pass/fail each semester. Some courses such as algebra, trigonometry, Arts & Sciences 110, Math 8,
Literature Elective (*)	14, 15, 21, Physics 21, 22, 23, 24, 25, 26, 27, 28,
Sp&MS 85-Intro to Speech (4)	31, 35 and the first two years of ROTC do not count toward the free electives.
Second Semester 15	Fifteen hours are CS electives. At least twelve hours
Cmp Sc 238-File Struct & Intro Database Sys 3	must be 300 level or higher CS courses (excluding CS 398 and CS 317). CS 202 and CS X7X courses
Cmp Eng 111-Intro to Cmp Eng <sup>(12)</sup>	are not accepted as CS electives.
Physics Elective (3)	Any nine hours chosen from departments that offer a S.S., (or Basic Engineering), excluding
Stat 215-Engineering Statistics (6) , , , ,	computer science. These may not be Math 8, 14,
JUNIOR YEAR First Semester Credit	15, 21, Physics 21, 22, 23, 24, 25, 26, 27, 28, 31, or 35.
History Elective (2)	" Any three hours in humanities or social colones.
Cmp Sc 284-Intro Operating Systems	Laboratory not required. Dr English 160 - Technical Writing.
Cmp Sc 220-Theory of Computer Science	" Or Chemistry 110, Physics 1, Math 1, or Fr Eng 10.
Free Elective (1)	Computer Science Minor Curriculum
Second Semester	A student with a minor in computer science must
Cmp Sc 256-Prog Languages & Translators	meet the following requirements:  A) Cmp Sc 153 and 12 elective hours in computer
Cmp Sc 228-Intro to Numerical Methods3	science beyond Cmp Sc 53, 54, 73 & 77 or 74 & 78.
English 60-Writing and Research Comp Sc 206-Software Engineering I	A member of the computer science faculty will serve     as the student's minor advisor. The student and
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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

- 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.
- 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 (LAS 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.
- 1.53 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
- 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) Onthe-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 order. Prerequisite: CMD Sc 253.
- group project. Prerequisite: Cmp Sc 253.

  210 Seminar (IND 0.0-6.0) Discussion of current topics.
- 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: hasic 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

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Effective Year: 2010  DC # 0339-2009-CS - 000 - 00  Effective Term: Summer  Fall S Spring  (Creating or modifying a degree program must be effective for a Fall term)	ク
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.	
· · · · · · · · · · · · · · · · · · ·	
OX 1	
Recommended by Department:(Chair signature) Date:	
Recommended by Department: (Chair signature)  Recommended by: Date: 18/14/2019  Discipline Specific Curricula Committee (Chair signature)	
Approved by Curricula Committee: Date: Date:	
Approved by Faculty Senate: Date:	

(Revised 1/31/2008)

Approved by Faculty Senate: \_

(Chair signature)

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Date: 10/15/2009 9:14:31 AM

From: 573 341 4362

Page: 1/18

Date: 10/9/2009 10:38:00 AM

Effective Year: 2010 Effective Term: Summer  Fall () (Creating or modifying a degree program mu	Spring 🖾 ist be effective for a Fall to		009-C5-000-00
Degree (	Change Form	n (DC)	
This form is to be used for creating or	· modifying degree progra	ms, emphasis areas,	and minors.
<b>Title of degree program, emphasis a</b> Proposed : Pervasive and Mobile Comput			
Department: CS			
Briefly describe action requested (At Pervasive and Mobile Computing has bee Computer Science among Bioinformatics, Protection. The students who opt for the classes from CS338, CS 401(Heterogene and two classes from CS365,CS401(Netw	come one of the emhasi , Software Engineering, concentration in this as cous and Mobile Databas	s areas in the Dep , and Critical Infras rea of study will ta ses), CS467, CS43	artment of structure ke any three 4,CS437,CS484
1. CS 338 Database Systems 2. CS 434 Data Mining & Knowledge 3. CS 365 Computer Communication 4. CS 401 Heterogeneous and Mobile 5. CS 462 Advanced Network & Secu 6. CS 463 Computer Security 7. CS 465 Advanced Topics in Wirele 8. CS 467 Mobile and Sensor Data M 9. CS 484 Distributed Systems and 1 10. CS 437 Web Data Management & CS 401 Network Performance Moni	n and Networks e Databases urity ess Networks lanagement Theory and XML		
ಗ್ರಹ್ಮಭ ಕೃಗೀಕ Recommended by Department:	(Chair signature)	<u>'</u> i	pate: 50,14,09
Recommended by Disciplin <del>e</del> Specific Curria.	ula Committee: (Chair signature)	il Jak	Date: 15/14/2009
Approved by Curricula Committee:	(Chair signature)		Date:
Approved by Faculty Senate:	(Chair signature)	I	Date:
			(Revised 1/31/2008)

09/04/09

From: 573 341 4362 Page: 8/27 Date: 10/15/2009 9:14:31 AM

### 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
_X_ 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		Title of New Program or Certificate Option		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.

From: 573 341 4362 Page: 9/27 Date: 10/15/2009 9:14:32 AM

- 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

Month/Year

- 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":

Spring)2010		
AUTHORIZATION	.ah	
Ali Hurson, CS professor and Cha	air 🔝	Sep 8,09
Name/Title of Institutional Officer	Signature Date	,
	3 <del>4</del> 1	
_Ali Hurson	<b>444</b> 6201	
Person to Contact for More Informa	tion Telephone Numbe	r

From: 573 341 4362 Page: 10/27 Date: 10/15/2009 9:14:32 AM Effective Year: 2010 CC File # 7734-2009-BioSci-370-32 Effective Term: Summer | Fail 🗍 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.) Department: Biological Sciences 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:  $\square$ 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) 3) Recommended by Department

Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: \_ Date: (Chair signature) Date: \_ Approved by Faculty Senate: \_ (Chair signature)

From: 573 341 4362 Page: 11/27 Date: 10/15/2009 9:14:32 AM

Effective Term: SP10 CC File # 7736-2009-BUS-405-33

# Course Change Form (CC) This form is for creating or modifying permanent courses.

Course Cha	<b>anges</b> (Check all changes	.)	•		
New Course	Course Deletion	☐ Credit H	lours 🗌	Prerequisites 🗌	
Course Title	oxtimes Catalog Descript	ion 🛛 Course	Number 🗌	Co-listing 🗌	
<u>Course Inf</u>	ormation (1-9 Must Be (	Completed. Leave "Prop	osed" items bla	ink if no change is being ma	ide.)
1. School/Co	ilege: N/A	De	partment: B	usiness	
2. Discipline	and Course Number:	Present : BUS 405	Ргор	osed:	
3. Course Titl	le: Present: Advanced	Accounting Essential	s		
	-	Accounting Essentials	i		
Abbreviat	ted Course Title: Grad A	oct Essentials Only needed for New	Courses or Tit	le Changes )	
4. Catalog De	scription (40 Words or Les			ic allanges.)	
Present:	running a business. It is	s designed for student siness students who v	s planning to vant some bu	and managerial accounting enter the MBA program was siness background. Crea s, IST, or economics.	who need
Proposed:	and for non-business stu	or students planning t idents who want some	to enter the M e business bac	gerial accounting for runr BA program who need th :kground.Credit cannot b onal case or report requi	is area e applied
5. Credit Hou	rs: Present:	Lecture: 1.5	Lab:	Total: 1.5	
	Proposed:	Lecture: 1.5	Lab:	Total: 1.5	
i. Prerequisit Present:					
Proposed	d:				
. Required fo	or Majors: 🗌 💢 Elective	e for Majors: 🗌	· ·		
3. Justificatio		ed for a Business Esse BUS 301B in FS07 and		ate that has been approv 5P08.	ed. It
	previously offered as an -listed courses, initialed b	•			low.
.)			4)		
:)			5)		
)		0.0	6)		
.ecommende	d by Department <u><i>UM</i></u>	olinifistier (Chair signature)		Date: <u>9/9/09</u>	
.ecommendec	<b>⊅scc</b> d by <del>School/College:</del>	(Dean signature)	lest_	Date: <u>9/23/09</u>	
.ecommended	d by UMR Curricula Comm	nittee: (Chair signature)		Date:(Action)	<del></del> .
ecommended	d by Academic Council: _	(Chair signature)		Date:(Action)	

From: 573 341 4362 Page: 12/27 Date: 10/15/2009 9:14:33 AM

**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 Total: 1.5 Proposed: Lecture: 1.5 Lab: 6. Prerequisites: Present: Bachelor Degree Proposed: Elective for Majors: 🔲 7. Required 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) 6) 3) Recommended by Department Recommended by Se Recommended by UMR Curricula Committee: (Chair signature) (Action) Recommended by Academic Council: (Action) (Chair signature)

(Revised 2/14/02)

From: 573 341 4362 Page: 13/27 Date: 10/15/2009 9:14:33 AM

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 nonbusiness 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) Recommended by Department \_\_ Recommended by Dean signature) Recommended by UMR Curricula Committee: (Action) · (Chair signature) Recommended by Academic Council:

(Action)

(Chair signature)

Page: 14/27

Date: 10/15/2009 9:14:33 AM

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 Opperations 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 nonbusiness 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 nonbusiness 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 Total: 1.5 Lab: 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: Recommended by Recommended by UMR Curricula Committée: (Chair signature) Date: Recommended by Academic Council: (Chair signature) (Action)

From: 573 341 4362 Page: 15/27 Date: 10/15/2009 9:14:34 AM

**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 nonbusiness 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 **Total:** 1.5 Lab: Lecture: 1.5 Lab: Total: 1.5 Proposed: 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) 2) 5) 3) Recommended by Department Color Recommended by Se Dean signature) Recommended by UMR Curricula Committee: (Action) (Chair signature) Recommended by Academic Council: . (Chair signature)

From: 573 341 4362 Page: 16/27 Date: 10/15/2009 9:14:34 AM

Effective Year: 20 Effective Term: Sum	-· <u> </u>	Spring 🛚	-CC File	#7741-2009-Psych-154-2C
Course Changes	This form is for c	Change reating or modif	Form (	CC)
New Course	Course Deletion	Cradit	Hours 🗌	Prerequisites 🗔
Course Title 🗌	Catalog Description		Number 🗌	Co-listing [
<del></del>	•			ank if no change is being made.)
1. Department: Psy			sposed Reillo B	ank i no change is being made.)
•	ourse Number: Pr	esent: Psych 15	4 Pro	posed:
	sent: Psych Person	•	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
· ·	posed:			
Abbreviated Cou				
(24 4. Catalog Description Present:	Spaces or Less. Only n (40 Words or Less)	needed for Nev	v Courses or T	itle Changes.)
Present:				
Proposed:				
5. If course requires t	field trip check box: [			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:
Proposed:				
		n taught within t	he past 10 yea	ers, and there are no plans to
10. Semesters previo 11. List all co-listed co	-			
			_	
4)	5)	K-1	6)	- 1-1-
Recommended by Dep	partment / Van	(hajr signature)	0 00	Date: <u>9/9/07</u>
Recommended by Disc	cipline Specific Curric	ula Cømmittee _ (Chair signature)	<u>Arry Sleer</u>	Date: 9/23/09
Approved by Curricula	Committee:	(Chair signature)		Date:
Approved by Faculty S	Senate:	(Chair signature)		Date:

From: 573 341 4362 Page: 17/27 Date: 10/15/2009 9:14:34 AM

Effective Year: 2010 Effective Term: Summe	· 🔲 Fall 🖂 S	pring ⊠	-CC File		)-Byc-24le-20
	Course	Change	Form (	CC)	
	This form is for cr				
<u>Course Changes</u> (Ch					
	ırse Deletion 🛭 _		Hours 🗌	Prerequisites	. 🔲
	alog Description $\square$		e Number 🔲	Co-listing 🗌	
Course Information	(1-9 Must Be Comp	leted. Leave "Pri	oposed" items b	lank if no change is	being made.)
1. Department: Psycho	logical Science				
2. Discipline and Cours	e Number: Pre	sent: Psych 24	6 Pro	posed:	
3. Course Title: Presen	t: Motivation and	d Emotion			
Propos					
Abbreviated Course		and of for No.	Carres an T	Stie Character	
4. Catalog Description (4) Present:	aces or Less, Only O Words or Less)	needed for Nev	v Courses or 1	itle Changes.)	
Proposed:					
5. If course requires field	trip check box:	]			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Majors:	Elective for I	Majors: 🔲			
		taught within t	the past 10 yea	ars, and there are	no plans to
10. Semesters previously	•				
11. List all co-listed cours	es, initialed by De	pt. Chair, if sigi	nature does no	ot appear below.	
1)	2)		3)		
4)	5)	101	6)		2/1/2
Recommended by Departr	nent <u>Vana</u>	Chair signature)	00	Date	:: <u>9/9/0</u> 9
Recommended by Disciplin	ne Specific Curricu	lla Committee _ (Chair signature)	Nay Ma	Date Date	:: <u>1/23/09</u>
Approved by Curricula Cor	nmittee:	(Chair signature)	<del></del>	Date	»:
Approved by Faculty Sena	te:	(Chair signature)		Date	

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Date: 10/15/2009 9:14:35 AM

From: 573 341 4362

Page: 10/18

Date: 10/9/2009 10:38:03 AM

Effective Year: 2010 Effective Term: Summer ☐ Fall ☐ Spring ☒ cc File #7743-2009-Bio Sci-322-20

# Course Change Form (CC)

	This form is for c	reating or modifi	/ing permanen	it courses.	
Course Changes	(Check all changes.)				
New Course 🗔	Course Deletion 🗵	Credit	Hours 🔲	Prerequisi	tes 🗀
Course Title 🔲	Catalog Description	Course	Number 🔲	Co-listing	
Course Informat	<b>îon</b> (1-9 Must Be Com	pleted. Leave *Pro	posed" items bl	lank if no change	: is being made.)
1. Department: Bi	ological Sciences				
2. Discipline and C	ourse Number: Pr	esent : Bio Sci 3:	22 <b>P</b> roj	posed:	
3. Course Title: Pr	esent: Pathogenic M	icrobio Lab			
Pr	opo <del>se</del> d:				
Abbreviated Co				tala mu	
4. Catalog Description Present:	4 Spaces or Less, Only on <i>(40 Words or Less)</i>	y needed for Nev	Courses or 1	ide Changes.)	
Proposed:		•			
6. If course requires	field trip check box: [	⊐			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Totali	
Proposed:					
R. Required for Majo	rs: 🗌 Elective for	Majors:			
9. Justification: T	nis course has not bee ach it in the near futu	n taught within t	he past 10 yea	ars, and there a	are no plans to
-	ously offered as an ex				
	courses, initialed by D	ept. Chair, it sigi		ot appear pelov	f.
1)	2)		3)		
<b>\$</b> )	5)		<b>5</b> )		
Recommended by De	nartment + but	to March	<del>-</del>	r	pate: 9 10/09
recontinenced by De	sparument	(Chair signature)	<del>20</del>	T. 1	
Recommended by Di	scipline Specific Curric	:ula Committee _ (Chair signature)	<del>Dani</del> L T.l.	Zliyk r	Date: <u>9/10/07</u> Date: <u>16/14/2509</u>
Approved by Curricul	a Committee:				)ate:
MAINTEN NA CHILING		(Chair signature)		•	
Approved by Faculty	Senate:				)ate:
Thirden ny i neury	<u></u>	(Chair signature)	•		
					(Revised 1/31/08)

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Date: 10/15/2009 9:14:35 AM

From: 573 341 4362

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Date: 10/9/2009 10:38:04 AM

cc File # 7744-2009-BioSci-365-20 Effective Year: 2010 Effective Term: Summer 🔲 Fail 🖂 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Course Deletion 🗵 Credit Hours 🗀 Prerequisites 🗌 New Course 🗌 Course Number 🗆 Co-listing 🔲 Course Title 🔲 Catalog Description 🔲 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: 🔲 Present: Lecture: Lab: Total: 6. Credit Hours: Total: Lecture: Lab: Proposed: 7. Presequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: 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. 2) 3) 1) **6**) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Approved by Faculty Senate: (Chair signature)

(Revised 1/31/08)

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Date: 10/15/2009 9:14:35 AM

From: 573 341 4362

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Date: 10/9/2009 10:38:04 AM

cc File # 7745-2009-BioSci-376-20 Effective Year: 2010 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. Pepartment: 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 fleld 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) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee Z (Chair signature) Approved by Curricula Committee: Date: (Chair signature) Date: Approved by Faculty Senate: (Chair signature)

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Date: 10/15/2009 9:14:36 AM

Date: 9/18/2009 2:45:58 PM

Effective Year: 2010 Effective Term: Summer [] F

Fall 🔲 Spring 🗵

cc File # 7747-2009-14154-347-20

## 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: Orgas 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: Laba Totali 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) 3) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date: (Chair signature) Date: \_ Approved by Faculty Senate: (Chair signature) (Revised 1/31/08) 08/21/09

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Date: 10/15/2009 9:14:36 AM

From: 573 341 4362 Page; 2/7 Date: 9/18/2009 2:45:58 PM CC File # 7748-2009-Hist-351-20 Effective Year: 2010 Effective Term: Summer [7] Spring 🖾 Fall 🗍 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: Totai: Lab: 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. 2) 51 Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature)

Approved by Curricula Committee: Date: (Chair signature)

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08/21/09

Approved by Faculty Senate: Date: (Chair signature)

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(Revised 1/31/08)

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Date: 10/15/2009 9:14:36 AM

From: 573 341 4362 Date: 9/18/2009 2:45:59 PM Page: 3/7 cc File #7749-2009-Hist-355-20 Effective Year: 2010 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: History and Political Science z. 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: Total: Present: Lectures Labi Total: Proposed: Lecture: Lab: 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. Z) 5) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: , (Chair signature) Date:

(Revised 1/31/08)

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(Chair signature)

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A6 /51 /68

Approved by Faculty Senate:

Effective Year: 2010 Effective Term: Summer □ Page: 24/27

Spring 🖾

Date: 10/15/2009 9:14:37 AM

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

From: 573 341 4362

Fall 🗀

Page: 4/7

Date: 9/18/2009 2:45:59 PM

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. 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) S) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date: (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

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From: 573 341 4362 From: 573 341 4362

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08/21/09

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Page: 5/7

Date: 10/15/2009 9:14:37 AM

Date: 9/18/2009 2:46:00 PM

cc File # 775/-2019-Hist-360-20 Effective Year: 2010 Effective Term: Summer 🗍 Fail 🗀 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: 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: Labi 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. 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. 2) 3) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date: (Chair signature) Date: . Approved by Faculty Senate: \_ (Chair signature)

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(Revised 1/31/08)

From: 573 341 4362

Fali 🗀

Effective Year: 2010 Effective Term: Summer Page: 26/27

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Date: 10/15/2009 9:14:38 AM

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

Date: 9/18/2009 2:46:00 PM

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 🗀 Prorequisites 🔲 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: Total: Lab: 7. Prerequisites: Present: Proposed: 8. Regulred 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) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: \_ Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08) DB/21/09 This fax was received by GFI FAXmaker fax server. For more information, visit: http://www.gfi.com

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From: 573 341 4362 Page: 27/27

From: 573 341 4362

Effective Year: 2010

Page: 7/7

Date: 10/15/2009 9:14:38 AM

Date: 9/18/2009 2:46:00 PM

CC File # 7753-2009-PolSei-250-20 Effective Term: Summer 🗆 Spring 🗵 Fall 🖂 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 [7] 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 Proposedi 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:  $\square$ 6. Credit Hours: Present: Lecture: Lab: Total: Proposed: Lecture: Lab: Totals 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) Recommended by Department Recommended by Discipline Specific Cyrricula Committee (Chair signature) Approved by Curricula Committee: Date: . (Chair signature) Date: \_ Approved by Faculty Senate: \_ (Chair signature)

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From: 573 341 4362 Page: 1/36 Date: 10/15/2009 9:23:39 AM

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	⊠ Co	urse Deletion 🗌	Credit H	iours 🗌	Prerequisit	:es 🗀
Course Title	Ca <sup>-</sup>	talog Description	☐ Course	Number 🔲	Co-listing (	ጃ]
Course Inf	<u>ormation</u>	(1-9 Must Be Com	pleted. Leave "Prop	osed" items t	olank if no change	is being made.)
1. School/Co	llege:		De	epartment:	Bus & Info Tech	
2. Discipline	and Cour	se Number:    Pı	esent :	Pro	posed: ERP 444	
3. Course Titl			Data Warehouses			
	Propos					
Abbreviat		<b>Title:</b> Data Ware aces or Less. Onl	enouses y needed for New	Courses or T	Fitle Changes.)	
4. Catalog De	scription (4	10 Words or Less)	,			
Present:	the studer	nt from the databa		ucturing a d	ata warehouse e	ganization. It takes environment. Focus
Proposed:						
			٠			
5. Credit Hou	re	Present:	Lecture:	Lab:	Total:	
J. Crean noai	13,	Proposed:	Lecture: 3.0	Lab: Lab:	Total: 3.0	
6. Prerequisit		•				
Present:	IST 223	or equivalent rel	ational database e	xperience		
Proposed	<b>d</b> :					
7. Required fo	or Majors: [	Elective for	r Majors: 🗵			
8. Justification	n: Create Certific		for IST 444 in ord	ler to have E	RP designation	for ERP Graduate
				/		
		•	perimental course Pept. Chair(s) and			annear helow
1) IST 444	-iistea Coui:	ses, miciaica by E	rept. chan (s) and	4)	gnatures do not	appear betown
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2)				5)		
3)		1	. / /	6)		, ,
Recommended	d by Depart	ment <u>(dish</u>	(Chair signature)	// /	_ Date: <i>9/.</i>	17/09
Recommended	d by <del>School</del>	rcc <del>/College</del> : <u>//</u>	Dean signature)	Kul -		23/09
Recommended	d by UMR C	urricula Committe	ee:(Chair signature)		_ Date:	(Action)
Recommended	d by Acader	mic Council:	(Chair signature)		_ Date:	(Action)

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Date: 10/15/2009 9:23:39 AM

From: 573 341 4362 Page: 1/20 Date: 9/18/2009 2:53:29 PM cc File # 7755-2009-ChE-366-20 Effective Year: 2010 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 Number 🗆 Co-listing 🔲 Course Title 🛄 Catalog Description 🔲 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:  $\square$ Total: Lab: Lecture: 6. Credit Hours: Present: Total: Labi Proposed: Lecture: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8, Required for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: 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. 2) 1) 5) 4) Date: 9/11/09\_\_\_ Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: . (Chair signature)

(Revised 1/31/08)

Date:

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(Chair signature)

Approved by Faculty Senate:.

From: 573 341 4362 Page: 3/36 Date: 10/15/2009 9:23:40 AM

From: 573 341 4362 Page: 2/20 Date: 9/18/2009 2:53:30 PM CC Pile # 7756-2009-MIN-340-20 Effective Year: 2010 Effective Term: Summer 🛄 Fati 🔲 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🛄 New Course 🔲 Course Deletion 🖾 Prerequisites 🔲 Catalog Description [ Course Number Co-listing 🗀 Course Title 🔲 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: 🔲 **Total:** Present: Lecture: Lab: 6. Credit Hours: Total: Lab: Lacture: Proposad: 7. Prereguisites: Present: Proposed: 8. Required for Majors: 🗍 Elective for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: teach it in the near future. 10. Semasters 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) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature)

(Chair signature)

(Chair signature)

Approved by Curricula Committee: .

Approved by Faculty Senate:

08/21/09

Date:

Date:

From: 573 341 4362 Page: 4/36 Date: 10/15/2009 9:23:40 AM

From: 573 341 4362

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Date: 9/18/2009 2:53:30 PM

Effective Year:	2010		
Effactive Term: 1		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.) Prerequisites 🔲 New Course 🔲 Course Deletion 🖾 Credit Hours 🔲 Co-listing 🔲 Catalog Description 🗔 Course Number 🔲 Course Title 🔲 Course Information (1-9 Must Se 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: Present: Drilling and Slasting 3. Course Title: 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: 🔲 Total: اظها Lectures 6. Cradit Hours: Present: Tatzi: Lab: Lecture: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 8. Required for Majors: 🛘 This course has not been taught within the past 10 years, and there are no plans to g. Justification: 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) 4) Recommended by Department air signature) Recommended by Discipline Specific Curricula Committee \_ (Chair signature) Date: Approved by Curricula Committee: . (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08) 08/21/09

From: 573 341 4362 Page: 5/36 Date: 10/15/2009 9:23:40 AM

From: 573 341 4362 Page: 4/20 Date: 9/18/2009 2:53:30 PM 08/15/2005 13/13/31/3/41 CC File # 7758-2009-MiN-405-20 Effective Year: 2010 Effective Term: Summer 🔲 Pall 🔲 Spring 🗵 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗆 Course Deletion 🖾 Credit Hours -New Course 🗀 Course Number 🗔 Co-listing 🗀 Course Title 🛄 Catalog Description ... Course Information (1-9 Must Se Completed, Leave "Proposed" Items blank if no change is being made.) 1. Pepartment: Mining and Nuclear Engineering 2. Discipline and Course Number: Present : Min Eng 405 Proposed: Present: Non-Explosives Rock Frag S. Course Title: 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: 🗆 Totali Labi Present Lecture: 6. Credit Hours: Total: Lecture: Labi Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 🗆 8. Required for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: 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. I) 4) Recommended by Department-(Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: \_ (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature)

08/21/09

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Date: 10/15/2009 9:23:41 AM

From: 573 341 4362 Page: 13/18 Date: 10/9/2009 10:38:04 AM cc File # 7759-2009-BioSci-382-10 Effective Year: 2010 Fall 🖾 Effective Term: Summer Spring 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Course Deletion 🗌 Credit Hours Prerequisites 🔲 New Course Catalog Description 🔲 Course Number 2 Co-listing 🗒 Course Title Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.) Department: Biological Sciences Proposed: 382 Discipline and Course Number: Present: 301 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: 🛄 Total: 3 Lecture: 3 Lab: NA 6. Credit Hours: Present: Totals Lecture: Lab: Proposed: 7. Prerequisites: Present: Bio 211 Proposed: Bio 211 Elective for Majors: 🗵 8. Required 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, initialed by Dept. Chair, if signature does not appear below. 2) 3) 1) 5) 6) 4) Recommended by Department Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee:\_ (Chair signature) Date: Approved by Faculty Senate:

(Revised 1/31/08)

(Chair signature)

From: 573 341 4362 Page: 7/36 Date: 10/15/2009 9:23:41 AM

From: 573 341 4362

Page: 5/20

Date: 9/18/2009 2:53:31 PM

Effective Yea Term: Summ		□ Spring 🛭		ÇC File :	7760-2009-3	Syl-368-34
		Course	Change	Form (	CC)	
		his form is for c	reating or modify	ing permaneni	courses.	
		k all changes.)		4	Prerequisites 🗆	•
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J. <b>2</b> 04135 110	Propose	<del>-</del>				
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Present:	knowledge through the design.	and tools of trait iterative proce	nsforming an oper ss of analysis, sys	rational nasc i item integratio	ective is to provide to nto a defined system on, synthesis, optimiz	zation, and
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5. If course r	equires field	trip check box:				
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8. Required f 9. Justificatio	or Majors: 🗵 on: To prov	<b>Elective fo</b> vide better integ	or Majors: 🔲 gration within the	six systems e	ngineering core cours	<b>\$5.</b>
10. Semeste 11. List all co	rs previously -listed cours	offered as an o	experimental cour Dept. Chair, if sig	se (101, 201, neture does n	301, 401): ot appear below-	
1)	2)		3)			
4)	5)	/	2 6)			
Recommende	ed by Depart	ment	5 m	<u> </u>		09/09/09
			(Chair signature) ricula Committee	Juny Ba	Date:	P6-7(-P
			(Chair signature)	1 1.,	Date:	
Approved by	•		(Chair signature)	<u>-</u>		
Approved by	Faculty Seni	ate:	(Chair signature)			

From: 573 341 4362 Page: 8/36 Date: 10/15/2009 9:23:41 AM

From: 573 341 4362

Spring 🖾

Fall 🔲

Effective Year: 2010

Term: Summer 🔲

Page: 6/20

Date: 9/18/2009 2:53:31 PM

cc File #7161-2009-548E-411-32

Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🗀 Prerequisites 🖾 Course Deletion 🛄 New Course 🛄 Co-listing 🔲 Course Number 🗆 Catalog Description 🖾 Course Title 🗵 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: EMSE Proposed: 2. Discipline and Course Number: Present: SysEng 411 Present: Systems Engineering Mangement Proposed: Systems Engineering Capatone 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.) This course covers modern methods of effective management of complex systems, and Present: 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 enginnering 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: 🗆 Total: 3 Lecture: 3 Lab: Present: 6. Credit Hours: Total: Lab: Lecture: Proposed: 7. Prerequisites: Present: Graduate Standing SysEng 469, 412, and 413. Can be taken concurrently with SysEng 469 with consent Proposed: of instructor. Elective for Majors: 🗀 8. Required for Majors: 🖾 A capstone course is an ABET requirement for engineering graduate programs. SysEng 9. Justification: 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. 3) 2) 1) 5) 4) Date: <u>09/09/09</u> Recommended by Department \_\_\_ Date: 9-18-09 (Chair-signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_\_\_\_\_ Approved by Curricula Committee: \_ (Chair signature) Date: \_\_\_ Approved by Faculty Senate: \_ (Chair signature)

(Revised 1/29/09)

From: 573 341 4362 Page: 9/36 Date: 10/15/2009 9:23:42 AM

From: 573 341 4362

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Date: 9/18/2009 2:53:32 PM

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Effective Yea Term: Summa	ar: 2010 er □ Fa	ılı 🔲 Spring	<b>.</b> 🗵		CC File #	7762-2009-Syst-42-32
		Cours	se Cha	nge Fo	rm (C	<b>C</b> )
		This form is f	or creating o	r modifying	permanent c	courses.
Course Cha		ieck all changes			A-0	
New Course [	_	urse Deletion		Credit Hou		Prerequisites 🗵
Course Title	] Ca	talog Descript		Course Nu	1	Co-listing   k if an change is being made \
		(1-9 Must Be	Completed. L	eave "Propose	d. losure ciau	k if no change is being made.)
1. Departme			_		<b>5</b>	
2. Discipline	and Cour	se Number:	Present : S	SysEng 412	Propos to et Managas	
3. Course Title		nt: Complex	Engineering	Systems Pri	Noct wande	staene
Abbreviat	Propo					
	(24 St Seription (	paces or Less. 300 Character S	spaces or Less	i.)		
Present:	Explore is Issues spe Engineeri technical	sues related t ecific to distrib ng Manageme performance,	to planning, souted project outed project ont Plan, Inte schedule and	scheduling, a t planning ar grated Maste d risk.	er Sch <b>e</b> dule a	ig complex engineering projects. Evelopment of Systems and Plan, and monitoring
Proposed:	developm Schedule risk.	ent, resource and Integrate	managemer d Master Pla	t congresing	' nianning, di	et management, team evelopment of Integrated Master performance, schedule, cost, and
5. If course re	equires fie	ld trip check b		_		
6. Credit Hou	rs:	Present:		nter 3	Lab:	Total: 3 Total:
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8. Required for 9. Justification		⊠ <b>Electiv</b> rovide better i	<b>/e for Majors</b> ntegration w	: □ ithin the slx	systems eng	ineering core courses.
10. Semeste	rs previou:	sly offered as	an experime	ntal course (	(101, 201, 30	)1, 4 <b>0</b> 1):
11. List all co	-listed cou	rses, initialed	by Dept. Ch	alr, if signat	ur <del>e</del> do <del>es</del> not	appear below.
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-	_		Our	~{/_		Date: <u>09/09/89</u>
Recommende	ed by Depa	rtment	(Chair	signature)	4. A.O. I	ν Date: <u>9-) (-)</u>
Recommende	ed by Disch	pline Specific	Curricula Col	mmittee	w/1/ Dunto	Date:
Approved by	Curricula (	Committee: _		U		Date:
• •	•		(Chair	signature)		Date:
Approved by	raculty se	mate.	(Chair	signature)	<u>"</u>	

From: 573 341 4362 Page: 10/36 Date: 10/15/2009 9:23:42 AM

From: 573 341 4362

Page: 8/20

Date: 9/18/2009 2:53:32 PM

Effective Year	är: 2010 n. Summer	· ☐ Fall ☐ S	ipring 🖾	CC File (	# 7963-20	09-3ysE-41
		Course	Change i	Form (	CC)	
		This form is for cr	eating or modifylr	d bermanen;	t courses.	
Course Cha		eck all changes.)		_		<b>K</b> 2
New Course [	<del>-</del>	irse Deletion 🗌	Credit H	·	Prerequisite	
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Course Info	<u>ormation</u>	(1-9 Must Be Comp	oleted. Leave "Prop	osed" items bi	ank it no change i	s being made.)
1. Departme					_	
2. Discipline	and Cour	se Number: Pr	esent : SysEng 41	•	oosed:	
3. Course Titl	e: Presen	t: Economic And led: Economic And	ilysis of Systems I ilysis for Systems	Engineering F Engineering	Projects	
Abbreviat	ad Course	Title: Economic	Analysis SysEng			•
	(24 Sp	aces or Less. Only 10 Words or Less)	needed for New	Courses or Ti	itle Changes.)	
Present:	r*	auglication of com	plex engineering	systems for g	jovernment defe	nse and
* - ***********************************	commercia quantitativ	al industries; choo ve techniques for	cian cyctem alten	natives using onetary cons	equences; life c	onomic analysis; /cle costing; formal
Dennacad:		f aconomic ovalua	ation for engineeri	na proj <b>ects</b> ir	rvolvina comple	x systems.
Proposeu.	Economic involving	しゃくっともの へん さんかんぐ	ing system alterna ty, and engineerin	itives, life cvi	CIC COSUITA, CONT	intille electricalia
5. If course r	equires fiel	d trìp check box:				
6. Credit Hou	r <b>:5</b> †	Presenti	Lecture: 3	Lab:	Total: 3	
		Proposed:	Lecture:	Labi	Total:	
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			n concurrently wil	th SysEng 36	8 with consent (	of instructor
8. Required f 9. Justification	me Naw+	itle is more repres	r Majors:   sentative of course gration with the fi	e scope and t ve other syst	opics. Changes ems engineering	to description core courses.
10. Semeste 11. List all co 1)	rs previous -listed cou	ly offered as an e raes, initialed by I 2)	xperimental cours Dept. Chair, if sign	e (101, 201, ature does n 3)	301, 401): ot appear below	· <b>.</b>
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Recommende	ed by Depar	tment	(Chair Signature)		D	ate: <u>67/07/09</u>
Recommende	ed by Discip	line Specific Curri	cula Committee (Chair signature)	eny of Ba	<u> </u>	eate: <u> </u>
Approved by	Curricula C	ommittee:	(Chair signature)			ate:
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Approved by	Faculty Sei	nate:	(Chair signature)			******
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From: 573 341 4362 Page: 11/36 Date: 10/15/2009 9:23:42 AM

From: 573 341 4362

Page: 9/20

Date: 9/18/2009 2:53:32 PM

cc File # 7764-2009-Syst-468-32

Effective Yearm: Summ		Spring 🗵		CC File	#7744-a	009- <i>348E-4</i> 68-
	<b>ገ</b> ግ-	Course (	Change F	orm (	CC) t courses.	
Course Cha New Course I Course Title I Course Infe	inges (Check		Credit Ho Course N eted. Leave "Propo	ours 🗀 lumber 🗖	Prerequis Co-listing	
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=		Number: Pre:		Proj	posed:	
3. Course Title	e: Presenti Proposec	Systems Engineerin	ig whilisis tr			
	ed Course T (24 Spacescription /30/	itie: es or Less. Only o Character Spaces	or Less.)			
Present:	The objectiv	e is to provide th defined system c synthesis, optimi	e advanced know	uan the Itera	itive process c	rming an operational f enalysis, systems is are reinforced with
Proposed:		udo obveical and	functional analys	ris, analysis (	and traceabilli	prior courses. Topics y of requirements and trade studies.
5. If course requires field	trip check be	DEL 🔲			W-1-1-1-5	
6. Credit Hou	rs:	Present:	Lecture: 3	Lab: Lab:	Total: 3 Total:	
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Propose	d: SysEng 36	8.				
8. Required for 9. Justification	or Majors: 🛭 nn: In order enginee	Elective for to better prepar ring.	Majors: 🔲 e the graduate c	ertificate and	i masters stud	lents in systems
10. Semeste 11. List all co 1)	rs previously -listed cours 2)	offered as an exes, initialed by De 3)	perimental cours ept. Chair, if sign	e (101, 201, ature docs n	301, 401): ot appear belo	ow.
4)	5)	6)	$\bigcirc$			
_	_	12.	5			Date: <i>a3/09/09</i>
•	ed by Departr		(Chair dignature)	Nie niA	.044.	Date: 9-11-89
		ne Specific Curric	ula Committee (Chair signature)	may 11 1 mg	Variation.	
Approved by	Curricula Cor	nmittee:	(Chair signature)	<u></u>		Date:
Approved by	Faculty Sena	te:	(Chair signature)	<u> </u>		Date:

(Revised 1/29/09)

From: 573 341 4362 Page: 12/36 Date: 10/15/2009 9:23:43 AM

From: 573 341 4362

Page: 10/20

Date: 9/18/2009 2:53:33 PM

Effective Yea Term: Summe	art 2010 er 🔲 🛮 Fall	☐ Spring 🛚	-			9-SypE-419-32
		Course	Change	Form (	CC)	
		This form is for cr	eating or modi	fying permanent	courses.	
		ck all changes.)		t Hours 🗌	Prerequisites	M
New Course [		rse Deletion 🗆		t Number 🗆	Co-listing 🗆	<del>11</del>
Course Title	_  Cata	alog Description C			ank if no change is I	being made.)
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1. Departme		Discoule and Discoule	sees - EveFno	469 <b>Pro</b> c	osed:	
-		e Number: Pro		702		
3. Course Titi	e: Preseni Proposi	t: Systems Arch ed:	icecuig			
	ed Course (24 Spa	Title: aces or Less. Only	needed for No	ew Courses or Ti	tie Changes.)	
<del>-</del>	scription (3)	00 Character Space	is to provide t	ha hasic taals at	nd concepts of sys	items architecting
Present:	for complete the architect of architect	x systems design ct and architectin tactures.	and operation of teams, the p	s. The following the rocess of archite	ecting, architecting	methods, Design
Proposed:	engineering architecting Network-C	g systems. Syste g process, SysML entric Architectur	ms thinking, al and DoDAF Ar es. —	ทอบอบเซ เก รงระ	d concepts of arci em architecting, s ework, System of	Manager and the contract of th
		i trip check box:	_	1 -l	Total: 3	
6. Credit Hou	rs:	Present:	Lecture: 3	Lab: Lab:	Totali	
7. Prerequisit Present:		Proposed: :e standing	Lecture:	Lab.		
Propose	d: SysEng	468, can be take	n concurrently	with SysEng 46	8 with consent of	instructor.
8. Required for 9. Justification	or Majors: 2 on: To pro	፭ Elective fo ovide better integi	r <b>Majors: [</b> ] ration within th	ie six syst <b>e</b> ms ei	ngineering core co	ourses.
10. Samesta	rs previouel	y offered as an e	xperimental co	urse (101, 201,	301, 401):	
11. List all co	-listed cour	ses, initialed by I	ept. Chair, if a	ignature does n	ot appear below.	
1)	2)	•	3)			
	5)		6)	,		
4)	_		2 9		Davi	te: <u>09/09/09</u>
Recommende	ed by Depar	tment	(Chair signatur	- 1 D		
		line Specific Curri		6 Jany Day		te: <u>9-18-09</u> te:
Approved by	Curricula Co	ommittee:	(Chair signatu	re)		<del></del> -
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(Revised 1/29/09)

From: 573 341 4362 Page: 13/36 Date: 10/15/2009 9:23:43 AM

From: 573 341 4362

Page: 14/18

Date: 10/9/2009 10:38:05 AM

cc File # 7766-2009-1800-211-20 Effective Year: 2010 Spring 🖾 Effective Term: Summer 🔲 Fall 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗌 Credit Hours 🛄 Course Deletion 🗵 New Course 🔲 Course Number 🗆 Co-listing 🗌 Catalog Description 🔲 Course Title 🗆 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: Present: Optical Mineralogy 3. Course Title: 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: 🗀 Total: Lab: Lecture: 6. Credit Hours: Present: Total: Lecture: Lab: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: 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. 3) 2) 1) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: \_ (Chair signature) Date: \_ Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

08/21/09

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Date: 10/15/2009 9:23:43 AM

Date: 10/9/2009 10:38:05 AM From: 573 341 4362 Page: 15/18 cc File # 2762-2009- 410-411-20 Effective Year: 2010 Spring 🖾 Effective Term: Summer 🗆 Fall 🗌 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours Prerequisites 🔲 Course Deletion 🗵 New Course Co-listing 🔲 Course Number 🗆 Catalog Description 🗔 Course Title 🔲 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: 🔲 Total: Lab: Present: Lecture: 6. Credit Hours: Total: Lab: Proposed: Lecture: 7. Prerequisites: Present: Proposed: Elective for Majors: 🛄 8. Required for Majors: 🔲 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 praviously 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) 5) 4) Recommended by Department Date: Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: . (Chair signature)

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(Chair signature)

Approved by Faculty Senate: \_

Date: .

From: 573 341 4362 Page: 15/36 Date: 10/15/2009 9:23:44 AM

From: 573 341 4362

Page: 16/18

Date: 10/9/2009 10:38:05 AM

Effective Year: : Effective Term: S	2010 ummer □ Fall □	Spring 🔀	CC File	• # <i>7108-</i>	· 2 009-13 <b>- 43</b> 3
		se Chang			
New Course 🗆 Course Title 🗀	Course Deletion Catalog Descrip	s.)     Cre  tion   Co	adit Hours 🔲 urse Number 🖂	Prerequi Co-listin	s 🗀
		Completed, reave	i-imposed trattin		<u></u>
	Computer Science   Course Number:	Bracest • Comr	. Sci 433 <b>- Pr</b>	oposed:	
<del>-</del>	Present: Theory (				
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Proposed:					
	es field trip check l		Labi	Totai:	
6. Credit Hours:	Present: Propo <del>s</del> ed:	Lecture: Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed.	Farmi	,	<b>, 2</b>	
Proposedi					
8. Required for Ma	yors: 🗌 Electiv				
9. Justification:	This course has no teach it in the near	t been taught wit r future.	hin the past 10 y	ears, and ther	e are no plans to
•	eviously offered as ed courses, initialed				, qw.
<b>t)</b>	<b>2</b> }		3)		
<b>+</b> )	5)	101)	6)		- Sant 10. 49
Recommended by	·	(Chair signat	12/2	P.	Date: Sey 10, 09
	Discipline Specific	Curricula Commiti (Chair signat	tee	March	Date:
Approved by Curri	cula Committee:	(Chair signat	ure)		Date:
Approved by Facul	ty Senate:	(Chair signat	ure)		Date:

Page: 16/36

Date: 10/15/2009 9:23:44 AM

From: 573 341 4362

Page: 11/20

Date: 9/18/2009 2:53:33 PM

cc File # 7769-2009-Emat-317-20 Effective Year: 2010 Spring 🗵 Fall 🔲 Effective Term: Summer 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🗆 Prerequisites 🛄 Course Deletion 🖾 new Course 🔲 Co-listing 🔲 Course Number 🗔 Catalog Description 🗆 Course Title 🔲 Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Engineering Management and Systems Engineering Present: Eng Mgt 317 Proposed: 2. Discipline and Course Number: Present: Compar & Multi-Natl Mgt 3. Course Title: 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: 🗆 Total: تطجيا Lecture: Present: 6. Credit Hours: Total: Lab: Proposed: Lecturo: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: 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) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: (Chair signature) Date: \_ Approved by Faculty Senate:. (Chair signature) (Revised 1/31/08)

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Date: 10/15/2009 9:23:45 AM

Date: 9/18/2009 2:53:33 PM From: 573 341 4362 Page: 12/20 cc File #7770-2009-Emgt-389-20 Effective Year: 2010 Fall 🔲 Spring 🕅 Effective Term: Summer Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🔲 Credit Hours 🗔 Course Deletion New Course 🔲 Co-listing 🔲 Course Number 🗔 Catalog Description Course Title 🛄 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: Present: Packaging Materials II 3. Course Title: 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:  $\Box$ Total: Lab: Present: Lecture: 6. Credit Hours: Total: Lab: Lecture: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 🗌 8. Required for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: 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. 3) 1) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_\_ Approved by Curricula Committee: . (Chair signature)

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(Chair signature)

Approved by Faculty Senate: \_

Date: \_\_\_\_

From: 573 341 4362 Page: 18/36 Date: 10/15/2009 9:23:45 AM

From: 573 341 4362

Page: 15/20

Date: 9/18/2009 2:53:34 PM

	From: 573 541	4302 Page: 1		72008 2:53:34 P	
Effective Year: 201 Term: Summer 🗌	.0 Fall 🗌 Spring	,   🖾	CC I	File # 779	14-2009-CER-201-10
	Cours	e Chan	ge Form	(CC)	
	This form is fo	or creating or r	nodifylng perma	inent course:	5.
Course Changes		•	,		
New Course 🗵	Course Deletion		Credit Hours 🗆	Prer	requisites 🔲
Course Title 🗀	Catalog Descripti		lourse Number 🛭	<del></del>	isting 🗆
Course Informat	<b>ion</b> (1-9 Must Be (	Completed. Leav	ve "Proposed" iter	ns blank if no	change is being made.)
1. Department: Ma					
2. Discipline and C	ourse Number:	Present: F	Proposed: Cer20	1	
	esent:				
	oposed: Special To				
Abbreviated Cot (2: 4. Catalog Description	u <b>rse Title:</b> Specia 4 Spaces or Less. on <i>(300 Character S</i>	Only needed to	or New Courses	or Title Chan	iges.)
Present:					
<b>Proposed:</b> This c Title.	ourse is designed	to give the de	partment an opf	portunity to t	rest a new course. Variable
5. If course requires	_	_	e: Lab:	Tota	· alt
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8. Required for Majo 9. Justification: T	ors: 🗌 Electív o allow departmen	re for Majors: ( nt to create ex	조 perimental cours	ses at the un	dergraduate level
10, Semesters prev	riously offered as	an experiment	al course (101,	201, 301, 40	<b>4</b> ):
11. List all co-listed	courses, initialed	by Dept. Chair	, if signature do	es not appe	ar below-
1)	2)	3)			
-,			./		
4)	-,	5) //hune G	Julie _	and A	Date: 4/2/09
Recommended by D		CHAIR SI	mature)	W. I.	Date: <u> </u>
Recommended by D		Cotton as	Dittee — //	- 1/200/-144	Date:
Approved by Curric	ula Committee:	(Chair sk	gnature)		
Approved by Facult	y Senate:	(Chair si		<u></u>	Date:

(Revised 1/29/09)

From: 573 341 4362 Page: 19/36 Date: 10/15/2009 9:23:45 AM

From: 573 341 4362

Page: 1/16

Date: 10/9/2009 10:34:06 AM

CC File # 7775-2009- Phys-4-20 Effective Year: 2010 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: 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: 🔲 Lab: Total: 6. Credit Hours: Present: Lecture: 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. 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) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: . Date: (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature)

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Date: 10/15/2009 9:23:46 AM

Date: 10/9/2009 10:34:06 AM From: 573 341 4362 Page: 2/16 cc file # 7776-2009- Phys-5-20 Effective Year: 2010 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: 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: 🔲 Total: 6. Credit Hours: Present: Lecture: Labi Lab: Total: Proposed: Lecture: 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. 2) 3) 5) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: . (Chair signature) Date: Approved by Faculty Senate:

(Chair signature)

From: 573 341 4362 Page: 21/36 Date: 10/15/2009 9:23:46 AM

From: 573 341 4362

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Date: 10/9/2009 10:34:07 AM

CC File #7777-2009-Phys-7-20 Effective Year: 2010 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: 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: Labi Total Lecture: Lab; Total: Proposed: Lecture: 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) 6) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: \_ (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

08/21/09

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Date: 10/15/2009 9:23:46 AM

From: 573 341 4362 Date: 10/9/2009 10:34:07 AM Page: 4/16 cc Flie # 7778-1009-Phyp-27-20 Effective Year: 2010 Effective Term: Summer [ Pall 🔲 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: 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 regulres 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 Pept. Chair, if signature does not appear below. 2) 3) 5) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: (Chair signature) Approved by Faculty Senate: \_ Date: (Chair signature) 08/21/09 (Revised 1/31/08)

1)

4)

From: 573 341 4362 Page: 23/36 Date: 10/15/2009 9:23:47 AM

From: 573 341 4362

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Date: 10/9/2009 10:34:07 AM

From: 5/3 341 4	302 Page: 3/15	Date: 10/9/2009		
Effective Year: 2010 Effective Term: Summer  Fall	Spring 🛚	CC File	* 7779-2009	7- Phys-2 <b>8-</b> 20
	e Change creating or modify			
	ا مالاند مالاند		B	•
New Course Course Deletion S	·	Hours 🔲	Prerequisites	
Course Title Catalog Description			Co-listing 🗆	: \
Course Information (1-9 Must Be Co 1. Department: Physics	mpieted. Leave "Pro	posea" items oi	ank if no change is be	ing made.)
2. Discipline and Course Number: 1	Present : Physics 2	8 Prop	osed:	
3. Course Title: Present: General Phy Proposed:	ysics Lab			
Abbreviated Course Title: (24 Spaces or Less. O	niv needed for New	Courses or Ti	tle Changes.)	
4. Catalog Description (40 Words or Less) Present:				
Proposed:				
5. If course requires field trip check box	<b>:</b> 🗆			
6. Credit Hours: Present:	Lecture:	Lab:	Total:	
Proposed: 7. Prerequisites: Present:	Lecture:	Lab:	Total:	
Proposed:				
8. Required for Majors:   9. Justification: This course has not be teach it in the near full		ne past 10 yea	irs, and there are no	o plans to
10. Semesters previously offered as an e 11. List all co-listed courses, initialed by 1) 2)	•	•	* -	
4) 5)		6)		
Recommended by Department	(Chair signature)	<del>20</del>	Date:	<u>9-4-09</u> 16/14/250g
Recommended by Discipline Specific Curr	ricula Committee <u>d</u> (Chair signature)	Danil J	Date:	16/14/2009
Approved by Curricula Committee:	(Chair signature)		Date:	<del> </del>
Approved by Faculty Senate:	(Chair signature)		Date:	<del></del>
08/21/09				(Revised 1/31/Q8)

From: 573 341 4362 Page: 24/36 Date: 10/15/2009 9:23:47 AM

From: 573 341 4362

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Date: 10/9/2009 10:34:08 AM

CC File # 7780-2009-Phys-337-20 Effective Year: 2010 Fall 🗌 Spring 🖾 Effective Term: Summer 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours Prerequisites 🗀 New Course 🗀 Course Deletion 🖂 Course Number 🔲 Co-listing 🗌 Catalog Description Course Title 🔲 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: 🛄 Lab: Total: Lecture: 6. Credit Hours: Presenta **Total**: Proposed: Lecture: Lab: 7. Prerequisites: Present: Proposed: 8. Required for Majors: 🗆 Elective for Majors: 🔲 This course has not been taught within the past 10 years, and there are no plans to 9. Justification: teach it in the near future. 18. 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) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee I(Chair signature) Date: Approved by Curricula Committee: \_\_\_ (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

08/21/09

From: 573 341 4362 Page: 25/36 Date: 10/15/2009 9:23:47 AM

From: 573 341 4362

Page: 7/16

Date: 10/9/2009 10:34:08 AM

CC File # 7781-2009- Phys- 435-20 Effective Year: 2010 Fall 🖂 Spring 🖾 Effective Term: Summer Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🗔 Prerequisites 🔲 New Course 🔲 Course Deletion 🗵 Course Number 🔲 Co-listing 🛄 Course Title Catalog Description 🔲 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: Lab: Total: Lecture: Total: Proposed: Lab: Lecture: 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. Somesters 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) Z) 4) F) 6) Date: 9-4-09 Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: \_ Date: (Chair signature) Date: Approved by Faculty Senate: \_\_ (Chair signature)

08/21/09

From: 573 341 4362 Page: 26/36 Date: 10/15/2009 9:23:48 AM

From: 573 341 4362

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Date: 10/9/2009 10:34:08 AM

Effective Year: Effective Term:	2010 Summer 🔲 🛚 Fall 🔲	Spring 🖾	CC File	* # 7782-200	9-Chun-447-20
		e Change			
Course Chanc	This form is fo (Check all changes.)	r creating or modif	ying permane	nt courses.	
New Course	Course Deletion 2	_	Hours 🗆	Prerequisites	· 🗆
Course Title 🗀	Catalog Description		a Number 🗀	Co-listing 🗌	' <b></b>
Course Inform	nation (1-9 Must Be Co				being made.)
1. Department			•	7. T. T. T.	<b>-</b>
2. Discipline an	d Course Number:	Present : Chem 44	7 Pra	posed:	
3. Course Title:	Present: Statistical	Thermodynamc		•	
	Proposed:				
Abbreviated	·		Caaa a. 7	itle Chevese \	
4. Catalog Descri	(24 Spaces or Less. O ption (40 Words or Less)		w Courses or I	itie Changes.)	
Present:	• • • • • • • • • • • • • • • • • • • •				
Proposed:					
•					
S. If course requi	res field trip check box	a 🗆			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
- 1					
Proposed:					
8. Required for M	ajors: 🗌 🛮 Elective 1	ior Majors: 🗆			
•	This course has not be	7	the nast 10 ve	ars and there are	no plane to
	teach it in the near fu		tie best to Aci	ara, and there are	un bigua to
10. Semesters or	eviously offered as an	evnerimental cour	se /101, 201, 1	301 . 401 \+	
	ed courses, initialed by	·			
1)	2)		3)		
	•	_			
4)	5)	620 -	7 (6)		met m
Recommended by	Department	10 Linto		Date	: 9/16/04
		(Chair signature)	<u> </u>	-D. L	1111
Recommended by	Discipline Specific Curr		Drown b	Land Date	r: <u>10/14/2-609</u>
•		(Chair signature)	0	,	
Approved by Curri	cula Committee:	(Chair signature)		Date	
_		(-inni aiBimmis)			
Approved by Facul	ty Senate:	(Chair signature)		Date	

From: 573 341 4362 Page: 27/36 Date: 10/15/2009 9:23:48 AM

From: 573 341 4362

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Date: 10/9/2009 10:34:09 AM

cc File # 7783-2009-Chem-4442-20 Effective Year: 2010 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: 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: 🔲 Total: Lab: 6. Credit Hours: Present: Lecture: Total: Proposed: Lecture: Lab: 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) 3) 2) 4) 5) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: \_ (Chair signature) Date: Approved by Faculty Senate: (Chair signature)

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From: 573 341 4362 Page: 28/36 Date: 10/15/2009 9:23:48 AM

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Date: 10/9/2009 10:34:09 AM

Effective Year: Effective Term:		Spring 🗵	CC File	*1784-200G	-Cham-431-20
	Course	<b>Change</b>	Form (	CC)	
Course Chan-	This form is for	creating or modif	fying permanen	t courses.	
	Check all changes.)				_
New Course	Course Deletion		: Hours 🏻	Prerequisites	<b>3</b> []
Course Title [	Catalog Description		e Number 🔲	Co-listing 🗆	
	nation (1-9 Must Be Con	npjeted. Leave "Pi	oposed" items o	ank it no change is	peing made.)
1. Department	•		_	_	
,	id Course Number: P		31 <b>Pro</b> j	posedi	
3. Course Title:	Present: Inorganic Re Proposed:	Baction Mesns			
Abbreviated	Course Title:				
	(24 Spaces or Less. On	ly needed for Ne	w Courses or Ti	itle Changes.)	
<del>-</del>	iption (40 Words or Less)				
Present:					
Proposed:					
5. If course requ	ires field trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
C. Ashir.					
Proposed:					
8. Required for M	lajors: 🗌 🛮 Elective fo	r Majors: 🔲			
9. Justification:	This course has not bee	en taught within	the past 10 yea	ırs, and there are	no pians to
	teach it in the near futi		•	•	•
10. Semesters n	reviously offered as an e	xperimental cour	se (101, 201, 3	i01. 401):	
•	ed courses, initialed by I	-			
1)	2)		3)		
		$\sim$			
4)	5)	20 - 1	6)		chia-e
Recommended by	Department	UN MAKEN	<u>حد</u>	Dat	e: 4/10/25
		(Chai <u>r signathde)</u>	<u></u>	P-1	e: <u>18/14/2204</u>
Recommended by	Discipline Specific Curri		X Havel	Jellusk Dati	e: _ <i>18/14/32684</i>
		(Chair signature)	C	/	
Approved by Curr	icula Committee:	(Fig.1s also shows b		Dat	ê:
		(Chair signature)		_	
Approved by Facu	ılty Senate:	(Chair signature)	<del></del> -	Date	ë;
		/			

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Date: 10/15/2009 9:23:49 AM

From: 573 341 4362 Page: 11/16 Date: 10/9/2009 10:34:09 AM CC File # 7785-2009- (hem-421-21) Effective Year: 2010 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: 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: Total: Lecture: Lab: 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. 3) 5) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date:

(Revised 1/31/08)

Approved by Faculty Senate:

1)

4)

(Chair signature)

(Chair signature)

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Date: 10/15/2009 9:23:49 AM

From: 573 341 4362 Page: 12/16

Date: 10/9/2009 10:34:10 AM

Effective Year: 20 Effective Term: Sun		Spring 🖾	CC File	* 7786-20D	9-Chem-212-20
		Change creating or modify			
Course Changes		•			
New Course 🗌	Course Deletion 🖾	Credit	Hours 🔲	Prerequisit	es 🗒
Course Title 🔲	Catalog Description	☐ Course	Number 🗆	Co-listing [	<b>_</b>
Course Informati	ion (1-9 Must Be Com	pleted. Leave "Pro	posed" items b	lank if no change	is being made.)
1. Department: Ch	emistry				
2. Discipline and C	ourse Number: P	resent : Chem 21	2 Pro:	posedi	
3. Course Title: Pro	esent: Science Teac posed:	hing		•	,
Abbreviated Cou	ırse Titic:				
(24	Spaces or Less. On	ly needed for Nev	v Courses or T	itle Changes.)	
4. Catalog Pescriptio Present:	n (40 Words or Less)				
Proposed:					
5. If course requires 6. Credit Hours:	field trip check box: Present:	□ Lecture:	Lab:	Total:	
, 	Proposed:	Lecture:	Lab:	Total:	'
7. Prerequisites: Present:					
Proposed:					•
8. Required for Major	s: 🗌 Elective fo	r Majors: 🔲			
9. Justification: Th	is course has not be ach it in the near futu	en taught within t	he past 10 ye	ars, and there a	re no plans to
10. Semesters provid 11. List all co-listed o	_	•			
i)	2)		3)		
		_	<del>-</del>		
<del>1</del> )	5) &	, O V	5)		رصد 1/4/10
Recommended by De	partment	(Chair signature)			ate: <u>18/14/2304</u>
Recommended by Dis	cipline Specific Curri	cula Committee _ (Chair signature)	Stand	Hollanto 0	ate: <u>18/14/2304</u>
Approved by Curricula	a Committee:	(Chair signature)		D	ate:
Approved by Faculty:	Senate:			D	ate:
this over by Lacricy	JUINE	(Chair signature)		-	<del>-</del>

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From: 573 341 4362 Page: 31/36 Date: 10/15/2009 9:23:49 AM

Effective Year: Effective Term:		Fall □ S	Spring 🛚	CC F	ile #7787- <sub>2</sub>	2009-50cio-260- <sub>e</sub>
Course Chang	This f	orm is for cr	Chang reating or mo	Je Form odifying perma	(CC) nent courses.	
New Course 🗌	Course D	eletion 🗵	Cre	edit Hours 🔲	Prereq	uisites 🗌
Course Title 🗌	Catalog I	Description (	Cor	urse Number 🗆	Co-listi	ng 🔲
Course Inforn	nation (1-9)	Must Be Comp	leted. Leave	"Proposed" item	s blank if no cha	inge is being made.)
1. Department:						
2. Discipline an				logy 260 🛛 🖪	Proposed:	
3. Course Title:	Present: D	eviant Behav	/lor			
Abbreviated 4. Catalog Descri Present:	(24 Spaces of	r Less. Only	needed for	New Courses o	r Title Change	5.)
Proposed:						
5. If course requi	res field trip (	heck box: [	]			
6. Credit Hours:	• • • •	ient:	Lecture:	Lab:	Total:	•
7. Prerequisites: Present:	Prop	oosed:	Lecture:	Lab:	Totaí:	
Proposed:						
8. Required for Ma	ajors: 🗌	Elective for	Majors: 🔲			
9. Justification:		sociology co	urses are be	ontinued and t ing eliminated		ore students are no plans to
10. Semesters pr	•	=				low.
1)	•	2)		3)		
4)		5)	_	6)		9 7
-		<b>-</b> ,	- 1 <i>][1</i>	1 h. 5		8/21/~
Recommended by	Department		(Chair signatu	//	,	Date: <u>9/2//</u> 0/
Recommended by	Discipline Sp	ecific Curricu		e Well	lec-	Date: 9/21/09
Approved by Curri	cula Committ	ee:	(Chair signatu	re)		Date:

Date: \_\_\_

(Chair signature)

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

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Date: 10/15/2009 9:23:50 AM

Date: \_

Effective Year: Effective Term:	<b>-</b>	Spring 🛚	CC File	# 7788-2009-	Saio-281-3
	Cours	e Change	Form (	CC)	
	This form is fo	r creating or modif			
	<b>les</b> (Check all changes.)	<u> </u>			
New Course 🗌	Course Deletion 2		Hours 🗌	Prerequisites	
Course Title	Catalog Description	•	e Number 🗌	Co-listing 🗌	
	nation (1-9 Must Be Co		oposed" items b	lank if no change is b	eing made.)
	: Arts, Languages and	• -			
	d Course Number:	_	y 281 <b>Pro</b>	posed:	
3. Course Title:	Present: Family and	l Marriage			•
المعادة والمساواة	Proposed:				
Abbreviated	(24 Spaces or Less. C	oly needed for Nev	v Courses or T	itle Changes )	
4. Catalog Descri	ption (40 Words or Less,				
Present:					
					·
Proposed:					
				•	
		r <del></del> -			
·	ires field trip check box	<b>c:</b> ∐			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Łab:	Total:	
Proposed:					
8. Required for M	ajors: 🗌 Elective i	for Majors: 🗌			
9. Justification:	The sociology program	<del>-</del>	inued and ther	e are no more stud	lents
	enrolled. All sociology teach them in the nea	courses are being	eliminated be	cause there are no	plans to
10. Semesters or	eviously offered as an	evnerimental com	EA /101 201 1	th1 401).	
	ed courses, initialed by	·			
1)	2)	Dept. Chair, it sign		c appear below.	
-,	-,		3)		,
4)	5)	Rung	6)		$\sim 2$
Recommended by	Denartment	KWIL		Data	X131/09
isocolitinelided by	ocpulanting	(Chair signature)	و بس	Date;	(() ()
Recommended by	Discipline Specific Cur	ricula Committee	Meere	lu Data	JE/ 31/09
y		(Chair signature)	<del></del>	sate.	<del></del>
Approved by Curri	cula Committee:			Date:	
		(Chair signature)			

(Chair signature)

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

From: 573 341 4362 Page: 33/36 Date: 10/15/2009 9:23:50 AM

Effective Year: Effective Term:		Spring 🛚	CC File	# 7789.	-2009-Socio - 10
·		Change			
Course Chang	This form is for ci <b>ies</b> (Check all changes.)	reating or modif	ying permaner	nt courses.	
New Course	Course Deletion	Ćasalii	: Hours 🗌	D	
Course Title	Catalog Description		e Number 🗌	Prerequi Co-listin	
	nation (1-9 Must Be Comp				<del>-</del>
	: Arts, Languages and Phi		oposed reems b	idile ii iio chan	ge is being made.)
	d Course Number: Pre		v 100 - <b>B</b> ea	posed:	
3. Course Title:		<del>-</del>	y ±00 F10	posea:	
, , , , , , , , , , , , , , , ,	Proposed:				
	Course Title: (24 Spaces or Less. Only	needed for Ne	w Courses or T	itle Changes.	)
-	ption (40 Words or Less)		•	_	•
Present:					
	•				
Proposed:					
5. If course requi	res field trip check box: [				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7 Di-it	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
Proposed:					
8. Required for Ma	ajors: 🗌 Elective for	Majors: 🗌			
9. Justification:	The sociology program henrolled. All sociology coteach them in the near fu	urses are being	inued and ther eliminated bed	e are no mor cause there a	e students re no plans to
		-,·			
	eviously offered as an exp				
11. List all co-liste	ed courses, initialed by De	pt. Chair, if sig	nature does no	t appear belo	·W-
1)	2)		3)		
4)	5)	Pulha	6)		8/21/-
Recommended by	Department	100/0	<u> </u>		Date:
		(Chair signature)	111		Alail m
Recommended by	Discipline Specific Curricu	ıla Committee _ (Chair signature)	(Weller		Date: 4 81/0°
Approved by Curri	cula Committee:				Date:
•		(Chair signature)			<del></del>
Approved by Facul	ty Senate:				Date:
		(Chair signature)			

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6 Date: 10/15/2009 9:23:50 AM

Effective Term: Summer 🗌 Fall 🗋 Spring 🗵	2009-50cib <b>-100</b> -
Course Change Form (CC)	
This form is for creating or modifying permanent courses. <u>Course Changes</u> (Check all changes.)	
	iisites 🗌
Course Title Catalog Description Course Number Co-listin	
Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no char	
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:	.)
B	
Proposed:	
E 76 annuag namulaga Stalet terim alagat, hansa	
5. If course requires field trip check box:   6. Credit Hours: Present: Lecture: Lab: Total:	
6. Credit Hours: Present: Lecture: Lab: Total:  Proposed: Lecture: Lab: Total:	
7. Prerequisites: Present:	
Proposed:	
8. Required for Majors:   Elective for Majors:	
<b>9. Justification:</b> The sociology program has been discontinued and there are no mo enrolled. All sociology courses are being eliminated because there 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 bel	low.
1) 2) 3)	/
4) (6)	5/3//0.9
Recommended by Department (Chair signature)	Date:
Recommended by Discipline Specific Curricula Committee (Chair signature)	Date: 8/31/69
Approved by Curricula Committee:	Date:
(Chair signature)	
Approved by Faculty Senate:(Chair signature)	Date:

: 573 341 4362 Page: 35/36 Date: 10/15/20

	FIOH. 575 3	41 4362 Page	:. 35/36 Date.	10/15/2009 9.2	23.51 AIVI	
Effective Year: Effective Term:	2010 Summer	□ Spring 🛭		CC File #	7791-2	1009-Sccio-105-2
	Cou	rse Cha	nge Fo	rm (C	C)	
Course Chang	This form i <b>les</b> (Check all chan	s for creating oges.)	or modifying p	ermanent c	ourses.	
New Course 🔲	Course Deletic		Credit Hour		Prerequi	
Course Title 🔲	Catalog Descr		Course Num		Co-listing	_
Course Inforn	nation (1-9 Must 6	Be Completed. L	eave "Proposed.	!" items blank	c if no chang	ge is being made.)
1. Department	: Arts, Languages a	and Philosophy				
2. Discipline an	d Course Numbe	r: Present:S	Sociology 105	Propos	ed:	
3. Course Title:	Present: Social Proposed:	Organization				
	Course Title: (24 Spaces or Les iption (40 Words or )		d for New Cou	rses or Title	Changes.	)
Proposed:					·	
5. If course requ	ires field trip check	t box: 🗌				
6. Credit Hours:	Present:	Lecti	yre: l	.ab:	Total:	
7. Prerequisites: Present:	Proposed	l: Lectu	ure: î	.ab:	Total:	
Proposed:						
8. Required for M	ajors: 🔲 🛮 Elect	ive for Majors:	: 🗀			
9. Justification:	The sociology pro enrolled. All socio teach them in the	logy courses a				
-	reviously offered a: ed courses, initiale	-				ow.
L)	2)		,	3)	<b></b>	
						,
<b>+)</b> Recommended by	5)	RUM	2	6)		Date: \$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
recommended by	peparament	(Chair s	signature)	, /ì	· · · · · · · · · · · · · · · · · · ·	~/ //
Recommended by	Discipline Specific		nmittee signature)	Della		Date: 4/3/10 9
Approved by Curr	icula Committee: _					Date:
# E · · · · · · · · · · · · · · · · ·		(Chair s	ignature)			

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(Chair signature)

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

Date: \_\_\_\_

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Date: 10/15/2009 9:23:51 AM

Effective Year: Effective Term: 5	2010 Summer ☐ Fall ☐	Spring 🛭	CC FI	ie # <i>7792-20</i> 0	9-50c10-200-20
	Cour	se Char	ige Form	(CC)	
	This form is	for creating or	modifying perman	_	
Course Change	<b>es</b> (Check all change				_
New Course 🔲	Course Deletion	<b>—</b> _	Credit Hours 🗌 _	Prerequisite	_
Course Title 🛄	Catalog Descrip		Course Number 🗌	<del></del>	
	nation (1-9 Must Be	·	ve "Proposed" items	blank if no change is	s being made.)
1. Department:	Arts, Languages an	d Philosophy			
-	d Course Number:		ciology 200 P	roposed:	
3. Course Title:	Present: Special F	roblems			
Abbreviated (	Proposed:				
Appleviated	(24 Spaces or Less.	Only needed f	or New Courses or	Title Changes.)	
4. Catalog Descri	p <b>tion (</b> 40 Words or Le				
Present:					
Proposed:					
5. If course requi	res field trip check b	юх: 🗀			
6. Credit Hours:	Present:	 Lectur	e: Lab:	Total:	
•	Proposed:	Lectur	e: Lab:	Total:	
7. Prerequisites: Present:					
Flescht.					
Proposed:					
гторозеа.					
8. Required for Ma	alors: 🗌 🛮 Electiv	e for Majors: [			
9. Justification:	The sociology progrenrolled. All sociolo	am has been ogy courses are	liscontinued and th	here are no more s because there are	tudents no plans to
	teach them in the r	iear future.			
10 Somestore pr	eviously offered as a	an evneriment:	ol course (101, 201	1. 301. 401):	
-	ed courses, initialed	-			
1)	2)	т,ры	3)		
-,	-				/
4)	5)	12/1	$\binom{1}{2}$ $\binom{6}{2}$		0/2//
Recommended by	Department	M	J~~	Da	nte: <u>4/3//6</u> 7
,		(Chair sig	nature) / 1000	4	Philas
Recommended by	Discipline Specific (	lurricula Comm (Chair sig	nittee / Color nature)	Da	ite: 4/3/09
Approved by Curr	icula Committee:			Da	ite:
pp. 0 roa by Carr		(Chair sig	nature)		***
Approved by Facu	Ity Senate:			Da	ite:
	· · · · · · · · · · · · · · · · · · ·	(Chair cia	ature)		

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Date: 10/15/2009 9:30:33 AM

Effective Term:		Spring $oxtimes$	CC File	• # 7793-20	209-50cio-201-
	Course	Change	Form (	(CC)	
Course Chano	es (Check all changes.)	creating or modify	ing permane	nt courses.	
New Course 🗌	Course Deletion	Credit	Hours 🗌	December	:a []
Course Title 🗌	Catalog Description		Number 🗆	Prerequis Co-listing	_
Course Inform	nation (1-9 Must Be Com		· · · · · · · · · · · · · · · · · · ·		
	Arts, Languages and Ph		pooder recition	wank ti no chang	e is being made.)
	d Course Number: Pi	• •	201 <b>D</b> re	posed:	
3. Course Title:	Present: Special Topic		201 110	poseu.	
	Proposed:				
Abbreviated (	Course Title:				
4 Catalog Doggei	(24 Spaces or Less. Onl ption (40 Words or Less)	ly needed for New	Courses or 1	itle Changes.)	
Present:	ption (40 Words or Less)		•		
• +,,,,,					
Proposed:					
· · · · · · · · · · · · · · · · · · ·	res fleld trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites:	Proposed:	Lecture:	Lab:	Total:	
Present:					
Proposed:					
8. Required for Ma	ajors: 🗌 Elective for	r Majors: 🗌			
9. Justification:	The sociology program enrolled. All sociology of teach them in the near	ourses are being			
•	eviously offered as an exected by D	•		_	v.
1)	2)	· -	3)		
4)	5)	Ruch	ر 6)		ch las
Recommended by	Department	KUIN			Date: 8/31/09
		(Chair signature)	1 /1 1		P1-1160
Recommended by	Discipline Specific Curric	cula Committee (Chair signature)	Clede	<u> </u>	Date: 173/10
Approved by Curri	cula Committee:				Date:
•		(Chair signature)			
Approved by Facul	ty Senate:		<u> </u>		Date:
		(Chair signature)			

Date: 10/15/2009 9:30:34 AM From: 573 341 4362 Page: 2/32

·CC File #7794-2009-50010-210-20 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: 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: Total: Lecture: Lab: 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) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: (Chair signature) Date: \_ Approved by Faculty Senate: \_\_\_ (Chair signature)

Effective Year: 2010

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Date: 10/15/2009 9:30:34 AM

Effective Year: Effective Term: S		Spring 🛚	CC File	#7195-2009-Socio-30	V-
Course Change	Course This form is for c (Check all changes.)	Change creating or modifi	Form ( ying permaner	cc)	
New Course 🗌	Course Deletion 🛛	Credit	Hours 🗌	Prerequisites 🗌	
Course Title 🔲	Catalog Description	☐ Course	Number 🗌	Co-listing	
Course Inform	ation (1-9 Must Be Com	pleted. Leave "Pro	posed" items b	lank if no change is being made.)	
	Arts, Languages and Ph				
	Course Number: Pr	• •	/ 300 <b>Pro</b>	posed:	
3. Course Title:	Present: Special Probl Proposed:		,		
Abbreviated C	-				
(	(24 Spaces or Less, Onl	y needed for Nev	v Courses or T	ītie Changes.)	
	tion (40 Words or Less)				
Present:					
Proposed:					
5. If course requir	es field trip check box: [				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Ma	jors: 🗌 💢 Elective for	Majors: 🔲			
		ourses are being		re are no more students cause there are no plans to	
<u>-</u>	viously offered as an ex d courses, initialed by D	-			
1)	a courses, micialed by D 2)	epu chan, n sigi	3)	cupped below.	
+/	-,	2 0	3,		
4)	5)	PUL	6)	Der 8/3//0	9
Recommended by I	Department	(Chair signature)		Date: <u>// / 11/ O</u>	/
Recommended by I	Discipline Specific Curric		Ubelle	<u>u</u> Date: ₹/\$1/0	9
Approved by Curric	ula Committee:	(Chair signature)	1001-	Date:	
Approved by Facult	y Senate:	(Chair signature)		Date:	

From: 573 341 4362 Page: 4/32 Date: 10/15/2009 9:30:34 AM

\*CC File #7796-2009-50010-301-21 Effective Year: 2010 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 Prereguisites 🔲 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: Lab: Total: Lecture: Proposed: Lab: Total: Lecture: 7. Prerequisites: Present: Proposed: 8. Required for Majors: 🔲 Elective for Majors:  $\square$ 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) 5) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_\_\_\_\_ Approved by Curricula Committee: \_\_ (Chair signature) Date: \_\_\_ Approved by Faculty Senate: \_\_\_ (Chair signature)

From: 573 341 4362 Page: 5/32 Date: 10/15/2009 9:30:35 AM

Effective Year: Effective Term:		pring 🛭	CC File	:# <i>7191</i>	2 <i>009-Socio-310-</i> 2
	Course	Change	Form (	CC)	
	This form is for cre				•
Course Chang	<b>es</b> (Check all changes.)				
New Course 🗌	Course Deletion 🛛	Credit	Hours 🗌	Prerequis	sites 🗌
Course Title 🗌	Catalog Description $\Box$	Course	Number 🔲	Co-listing	
Course Inform	lation (1-9 Must Be Compl	eted. Leave "Pro	posed" items b	lank if no chang	ge is being made.)
	Arts, Languages and Philo				
2. Discipline and	d Course Number: Pres	sent : Sociology	310 <b>Pro</b>	posed:	
3. Course Title:	Present: Seminar				
	Proposed:				
Abbreviated (					
4 Catalog Deccii	(24 Spaces or Less. Only otion (40 Words or Less)	needed for New	Courses or T	itle Changes.)	
Present:	ation (40 Words of Less)				
713331131					
Proposed:					
5. If course requi	res field trip check box: 🗌				•
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
1 1 2 4 4 1 5 1					
Proposed:					
rioposea.					
8. Required for Ma	ajors: Elective for M	4aiors: □			
9. Justification:	The sociology program ha	_	nued and the	re are no more	e students
	enrolled. All sociology cou				
	teach them in the near fu	ture.			•
, , , , , , , , , , , , , , , , , , ,	eviously offered as an exp			• •	
	d courses, initialed by Dep	pt. Chair, if sign		ot appear belo	w.
1)	2)		3)		
4)	<b>5)</b>	$\sim$	6)		. / /
		11/25			~ 1/2//mg
Recommended by	Department	(Chair signature)			Date: <u>0/5// 07</u>
	B		A/2000	פ (ו	P121/09
Recommended by	Discipline Specific Curricul	la Committee _ (Chair signature)	· /Carco	ca	Date: 4/ 2//
		a.g., a ami wy			D-1
Approved by Curri	cuia Committee:	(Chair signature)			Date:
		५ = ००००० वर्ग्यास्त्रवस्य प्राप्त			Deiro
Approved by Facul	ty Senate:	(Chair signature)			Date:

From: 573 341 4362 Page: 6/32

Date: 10/15/2009 9:30:35 AM

Effective Year: 2010 Effective Term: Summer  Fall Spring	°CC File # 7798-2009-Lee-90-21
This form is for creating or	nge Form (CC) modifying permanent courses.
Course Changes (Check all changes.)	
New Course Course Deletion 🗵	Credit Hours 🗌 Prerequisites 🗌
- · · · · · · · · · · · · · · · · · · ·	Course Number 🗌 Co-listing 🗀
Course Information (1-9 Must Be Completed. Le	eve "Proposed" items blank if no change is being made.)
<ol> <li>Department: Arts, Languages and Philosophy</li> </ol>	
2. Discipline and Course Number: Present : Ge	rman 90 Proposed:
3. Course Title: Present: Scientific German	
Proposed:	
Abbreviated Course Title:	
(24 Spaces or Less. Only needed: 4. Catalog Description (40 Words or Less)	or New Courses or Title Changes.)
Present:	
Proposed:	
5. If course requires field trip check box: 🗌	
6. Credit Hours: Present: Lecture	e: Lab: Total:
Proposed: Lecture 7. Prerequisites: Present:	è: Lab: Total:
Proposed:	
8. Required for Majors: 🗌 Elective for Majors: 🛭	1
	rithin the past 10 years, and there are no plans to
10. Semesters previously offered as an experimenta 11. List all co-listed courses, initialed by Dept. Chair,	
1) 2)	3)
<i></i>	$\langle n \rangle \langle n \rangle$ .
4) 5)	V/ 1/2 6) 9/10/20
Recommended by Department(Chair sign	Date: 4/3/07
Recommended by Discipline Specific Curricula Comm (Chair sign	ittee
Approved by Curricula Committee:(Chair sign	ature)
Approved by Faculty Senate:	Date:

(Chair signature)

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Date: 10/15/2009 9:30:35 AM

Effective Year: 2010 Effective Term: Summe	er □ Fall □	Spring 🛚	CC File	:#7799-20	009-Ler-180-20
	Course	<b>Change</b>	Form (	CC)	
	This form is for	creating or modif	ying permane	nt courses.	
<b>Course Changes</b> (C	<del>-</del> -				
	ourse Deletion 🛛		Hours 🗌	Prerequisit	as 🗆
	atalog Description		e. Number 🔲	Co-listing [	
Course Information	1 (1-9 Must Be Cor	npleted. Leave "Pro	pposed" items b	plank if no change	is being made.)
1. Department: Arts,	Languages and Pl	hilosophy			
2. Discipline and Cou	rse Number:    P	resent : German	180 ' <b>Pro</b>	posed:	,
3. Course Title: Prese	nt: Basic Germa	ın Composition			
Propo					
Abbreviated Cours		ly pooded for New	v Cources or T	Title Changes \	
4. Catalog Description ( Present:	paces or Less. On 40 Words or Less)	ny needed for Nev	v Courses or i	itie Changes.)	
	•				
Proposed:					
5. If course requires fie	ld trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Majors:	☐ Elective fo	er Majors: 🔲			
9. Justification: This o	course has not be it in the near fut	en taught within t	he past 10 ye	ars, and there a	re no plans to
10. Semesters previous 11. List all co-listed cour	_	_			
1)	2)	bepti chan, n sigi	3)	or appear person.	ı
-,	-,		)		
4)	5)	NAI	<b>(7)</b> 6)		a 2 = 1 = 1
Recommended by Depar	tment	(Chair signature)			ate: <u>1/3</u> 02
Recommended by Discip	line Specific Curri		(fleel	OU D	ate: 9/16/09
Approved by Curricula C	ommittee:			Da	ate:
Approved by Curricula C	Auturtee,	(Chair signature)		<u> </u>	· <u></u>
Approved by Esculty Con	nato:			Da	ate:
Approved by Faculty Ser	iate	(Chair signature)			,

	From: 573 341 43	362 Page: 8/32	Date: 10/15/2009	9:30:36 AM	
Effective Year: 2 Effective Term: Su		Spring 🛭	CC File	# 7800-20	109-Ber-311-2
	Cours	e Change	Form (	CC)	
Course Change	This form is fo (Check all changes.)	r creating or modi )	fying permaner	nt courses.	
New Course 🗌	Course Deletion 🛭	Credi	t Hours 🗌	Prerequis	ites 🗌
Course Title 🗌	Catalog Description	on 🗌 Cours	e Number 🔲	Co-listing	
Course Informa	tion (1-9 Must Be Co	ompleted. Leave "Pi	roposed" items b	lank if no chang	e is being made.)
	Arts, Languages and				·
2. Discipline and	Course Number:	Present: German	311 Pro	posed:	•
3. Course Title: P	resent: Adv Germa	n Conversation			
	roposed:				
Abbreviated Co				:ul- <i>6</i> 6	
4. Catalog Descript Present:	24 Spaces or Less. O l <b>ion</b> (40 Words or Less)	my needed for Ne	w Courses or 1	ille Changes.)	
Proposed:					
5. If course require	s field trip check box	·· 🗆			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					•
8. Required for Majo	ors: 🗆 Elective 1	for Majors: 🔲			
	This course has not be each it in the near fu		the past 10 yea	ars, and there	are no plans to
	riously offered as an courses, initialed by	*			v.
1)	2)		3)		
4)	5)	and of	6)~		9/2/
Recommended by D	epartment	(Chair signature)	1 1:		Date:
Recommended by D	iscipline Specific Cur		Marce	u .	Date: 9/10/09

(Revised 1/31/08)

Date: \_

Date: \_

Approved by Curricula Committee: \_\_

Approved by Faculty Senate: \_

(Chair signature)

(Chair signature)

(Chair signature)

Page: 9/32

Date: 10/15/2009 9:30:36 AM

Effective Year: 2 Effective Term: Su		Spring 🗵	CC File	: # 7801-20	09-Ler-402-21
	Course	Change	Form (	(CC)	
	This form is for a	creating or modif			
	(Check all changes.)		_		_
New Course 🗌	Course Deletion 🗵		Hours 🗌	Prerequisit	
Course Title	Catalog Description		e Number 🔲	Co-listing [	
	tion (1-9 Must Be Com		oposea" items i	plank if no change	is being made.)
	rts, Languages and Ph	• •	400 -		
•	Course Number: P		402 <b>Pro</b>	posed:	
	resent: Beg Ger For roposed:	Grad Students			
Abbreviated Co	•				
(2	24 Spaces or Less. On	ly needed for Nev	v Courses or 1	litle Changes.)	
	on (40 Words or Less)				
Present:					
		•			
Proposed:					
					•
5. If course require:	s field trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
Proposed:					•
8. Required for Majo	ors: 🗌 Elective fo	r Majors: 🗌			•
9. Justification: T	his course has not bee	en taught within 1	he past 10 ye	ars, and there a	re no plans to
te	each it in the near futu	ıre.			
10. Semesters prev	iously offered as an e	xperimental cour	se (101, 201,	301, 401):	
	courses, initialed by D	_	-		•
1)	2)		3)	• •	
		201			<b>,</b> "
4)	5)	//////////////////////////////////////	6) 		9/12/20
Recommended by D	epartment			D	ate: <u> </u>
	,	(Chair signature)	1100000	11 -	0/16/09
Recommended by D	iscipline Specific Curri		1 Wolle	D	ate: 1//0/
		(Chair signature)			•
Approved by Curricu	la Committee:	///legia alaga at the significant		Ď	ate:
		(Chair signature)			
Approved by Faculty	Senate:	VALUE SEED OF SEED		D	ate:
		(Chair signature)			

From: 573 341 4362 Page: 10/32 Date: 10/15/2009 9:30:36 AM

Effective Year: Effective Term:		pring 🛚	CC File	#7802-2	009-Fren-3
Course Chang	Course This form is for cre  (Check all changes.)	Change eating or modify	Form (	CC)	
New Course 🔲	Course Deletion 🛛	Credit	Hours 🔲	Prerequisit	es 🗌
Course Title 🗌	Catalog Description	Course	Number 🗌	Co-listing [	
Course Inforn	nation (1-9 Must Be Compl	eted. Leave "Pro	posed" items bi	ank if no change	is being made.)
	: Arts, Languages and Philo			_	- ,
2. Discipline an	d Course Number: Pre	sent : French 3	78 <b>Pro</b> i	posed:	
3. Course Title:	Present: French Theate			, — — — — — — — — — — — — — — — — — — —	
	Proposed:				
Abbreviated	(24 Spaces or Less. Only	needed for Nev	/ Courses or T	itle Changes.)	
<del>-</del>	ption (40 Words or Less)				
Present: Proposed:					
<ul><li>5. If course requi</li><li>6. Credit Hours:</li><li>7. Prerequisites: Present:</li></ul>	res field trip check box: 🗍 Present: Proposed:	Lecture: Lecture:	Lab: Lab:	Total: Total:	apul
Proposed:				0,	apwit
8. Required for Ma	ajors: 🗌 💢 Elective for N	lajors: 🗌			
9. Justification:	This course has not been teach it in the near future	_	he past 10 yea	ers, and there a	re no plans to
10. Semesters pr	eviously offered as an exp	erimental cours	se (101, 201, 3	801, 401):	
11. List all co-liste	ed courses, initialed by De	pt. Chair, if sigr	ature does no	t appear below.	
1)	2)		3)		
4)	5) ( (2	Mr	<b>6)</b>		a/16/ 35
Recommended by	DepartmentV\lambda	(Chair signature)	Phone		ate: 4(10/0°
Recommended by	Discipline Specific Curricu	la Committee _ (Chair signature)	well C	Da	ate: $\frac{4/6}{6}$
Approved by Curri	cula Committee:	(Chair signature)		Da	ate:
Approved by Facu	Ity Senate:	(Chair signature)		Da	nte:

From: 573 341 4362 Page: 11/32 Date: 10/15/2009 9:30:37 AM

cc File # 7803-2009-Span-321-2 Effective Year: 2010 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: 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: If course requires field trip check box: 6. Credit Hours: Present: Lecture: Lab: Total: Proposed: Lab: Total: Lecture: 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. 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. 2) 1) 3) 4) 6) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: \_ Date: (Chair signature) Date: \_ Approved by Faculty Senate: \_

(Chair signature)

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Date: 10/15/2009 9:30:37 AM

Effective Year: Effective Term:		oring 🗵	CC File	# 7804-20	009-Span-60-20
Cayraa Sha	Course (	Change ating or modif	Form (fying permane	(CC)	
	es (Check all changes.)				
New Course 🗌	Course Deletion 🛛		Hours 🗌	Prerequisit	tes 🗌
Course Title 🗌	Catalog Description $\Box$		e Number 🗌	Co-listing [	
	ıation (1-9 Must Be Comple		oposed" items b	plank if no change	is being made.)
1. Department:	Arts, Languages and Philo	sophy			
2. Discipline and	d Course Number: Pres	ent : Spanish	60 Pro	posed:	
3. Course Title:	Present: Hispanic Civiliz	ation			
	Proposed:				
Abbreviated (			_		
4. Catalog Descrip	(24 Spaces or Less. Only r otion (40 Words or Less)	needed for Nev	w Courses or 7	Fitle Changes.)	•
Present:	201011 (40 Worlds of Less)				
			,		
					•
Proposed:					
5 If course requi	es field trip check box: 🗌				
6. Credit Hours:	Present:		1-6-	T-4-1.	
o. Clear nours.	, <del></del>	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Ma	ijors: 🗌 💢 Elective for M	ajors: 🗌			
9. Justification:	This course has not been t		the past 10 ve	ars, and there a	re no plans to
	teach it in the near future.		one past to ye	ars, and mere a	TE NO PIGNO TO
	eviously offered as an expe			· -	
	d courses, initialed by Dep	t. Chair, if sig		ot appear below	•
1)	2)	_	3)		
4)	5)	$\mathcal{O}_{I}$	6)		. / /
•	-•	IMAN	<u></u>		9/17/25-
Recommended by				D	ate:
	(	Chair signature)	Almana	. /	9/01/00
Recommended by	Discipline Specific Curricula		· Mulli	<u> </u>	ate: 42//
	(	Chair signature)			· · · · (
Approved by Curric	cula Committee:	April 2		D:	ate:
	(	Chair signature)			
Approved by Facul				Da	ate:
	(	Chair signature)			

From: 573 341 4362 Page: 13/32 Date: 10/15/2009 9:30:37 AM

Effective Year: Effective Term:		Spring 🛚	CC File #	7805-2009-Mus-61
	This form is fo	se Change or creating or mod	Form (C	C) courses.
	<b>les</b> (Check all changes.	.)		
New Course 🗌	Course Deletion		t Hours 🗌	Prerequisites 🗔
Course Title 🗌	Catalog Descripti		se Number 🗌	Co-listing 🗌
			roposed" items blanl	k if no change is being made.)
	: Arts, Languages and			
	d Course Number:		1 Propos	sed:
3. Course Title:	Present: Fundamen	itals Of Music		
	Proposed:			
	Course Title: (24 Spaces or Less. Ciption (40 Words or Less	Only needed for Ne	w Courses or Title	Changes.)
Present:		,		
	•			
Proposed:				
E Tf course vegui	inaa fiald kain abaab baa			
	ires field trip check bo			
6. Credit Hours:	Present:	Lecture:	Lab:	Total:
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:
Proposed:				
8. Required for M	ajors: 🗌 Elective	for Majors: 🗌		
9. Justification:	This course has not be teach it in the near fu		the past 10 years,	and there are no plans to
	eviously offered as an			
	ed courses, initialed by	/ Dept. Chair, if sig		ppear below.
1)	2)	$\cap$	3)	
4)	5)	WAN DO	6)	9/17/5/2
Recommended by	Department	(Chair signature)		Date: <u>\[\frac{1}{\pi}\] \\ \frac{1}{\pi}\]</u>
Recommended by	Discipline Specific Cur	ricula Committee (Chair signature)	Meeleen	Date: 9/21/09
Approved by Curri	icula Committee:	(Chair signature)	,	Date:
Approved by Facul	Ity Senate:	(Chair signature)		Date:

From: 573 341 4362 Page: 14/32 Date: 10/15/2009 9:30:38 AM CC File # 7806-2009 - Mus - 152-2 Effective Year: 2010 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: 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: Lab: Total: Lecture: 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. 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) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee:

Date:

(Chair signature)

(Chair signature)

Approved by Faculty Senate: \_

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2 Date: 10/15/2009 9:30:38 AM

Date: \_\_\_\_

Effective Year: Effective Term:		Fall 🗍 💲	Spring 🛭		CC File #	7807	- 2009-	-Mus-15
<u>Course Chang</u>	This fo	Ourse orm is for cr changes.)	Chang eating or m	ge Fol	rm (C	C) ourses.		
New Course 🗌	Course D	eletion 🛚	Cr	edit Hours		Prerequ	isites 🗌	
Course Title 🗌	Catalog D	escription [	_	ourse Numi	ber 🔲	Co-listin	g 🗆	
Course Inform				Proposed	" items blanl	( if no char	ge is being	ı made.)
1. Department	: Arts, Langua	ges and Phil	losophy					
2. Discipline an	d Course Nu	mber: Pre	e <b>sent :</b> Music	c 155	Propos	ed:		
3. Course Title:		usic in the U	). S.					
# lb lb	Proposed:	a.						
Abbreviated 4. Catalog Descri Present:	(24 Spaces o	r Less. Only	needed for	New Cour	ses or Title	Changes.	)	
Proposed:								
5. If course requi	res field trip c	heck box: [	]					
6. Credit Hours:	Pres		Lecture:		ab:	Total:		
7. Prerequisites: Present:	Prop	osed:	Lecture:	La	ab:	Total:		
Proposed:								
8. Required for Ma	ajors: 🗌 🗀	Elective for	Majors: 📋					. •
9. Justification:	This course h teach it in the			hin the pas	it 10 years,	and there	e are no p	lans to
10. Semesters pr 11. List all co-liste	<del>-</del>	_		=	-	-	w.	
1)	•	2)		<b>_</b>	3)			
4)		5)	PIS	$\lambda_{0}$	6)		C	7/17/20
Recommended by	Department .		(Chair signati	ure) ///	······································		Date:	<u> 13 1/12</u> al r. 1 n a
Recommended by	Discipline Spe	cific Curricu	ıla Committ (Chair signatı		uur	<del></del>	Date:	721169
Approved by Curri	cula Committe	e:	(Chair signati	ure)			Date:	

(Chair signature)

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

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Date: 10/15/2009 9:30:39 AM CC File # 7808-2009- Art-251-26

Effective Year: Effective Term:		Spring 🛚	CC File #	7808-2009.	- Hzt-251-
Course Chang	Course This form is for es (Check all changes.)	Change I creating or modifyi	Form (C	C) courses.	
New Course	Course Deletion	A			7
Course Title	Catalog Description	Credit H	ours 🗀 Number 🗌	Prerequisites	4
<del></del>	nation (1-9 Must Be Con		<del></del>	Co-listing	
	Arts, Languages and Pi		osed items bian	K II no change is be	ung made.)
	d Course Number: P	• •		<b>.</b>	
3. Course Title:	u Course Number: P Present: Genre Studio		Propo	sea:	
s. course fille.	Proposed:	es riim & Lit			
Abbreviated (	-				
	(24 Spaces or Less. On ption (40 Words or Less)	ly needed for New	Courses or Title	e Changes.)	
Proposed:					
5. If course requi	res field trip check box:				
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Ma	ajors: 🗌 💢 Elective fo	r Majors: 🗌			
9. Justification:	This course has not bee teach it in the near futu		e past 10 years	, and there are no	o plans to
<del>-</del>	eviously offered as an ex ed courses, initialed by t	_		-	
1)	2)		3)		
-,	_	$\wedge$	,		
4)	5)	$V) / \lambda \lambda$	6)		0/10/00
Recommended by	Department	(Chair signature)	1 . 1	Date:	9/11/09
Recommended by	Discipline Specific Curri	cula Committee // (Chair signature)	Hellen	Date:	<u>911/0</u> 9
Approved by Curri	cula Committee:	(Chair signature)		Date:	
Approved by Facul	ty Senate:	(Chair signature)	. <u>-</u>	Date:	

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Date: 10/15/2009 9:30:39 AM

Effective Year: 20 Effective Term: Sur	<u> </u>	Spring 🛚	CC File	# 7809-20	709-Peb-255-20
	Course	Change	Form (	CC)	
	This form is for a	reating or modify			
Course Changes	= -		_		
New Course 🗌	Course Deletion 🗵		Hours 🔲	Prerequisite	s 🗆
Course Title	Catalog Description		Number 🗌	Co-listing 🗌	
	<b>ion</b> (1-9 Must Be Com		posed" items bla	ank if no change is	being made.)
	ts, Languages and Ph	, <u>-</u>			
	Course Number: Pr		Prop	osed:	
	esent: Script to Scre	en			
Abbreviated Cor (2	4 Spaces or Less. Onl	y needed for New	Courses or Tit	tle Changes.)	
4. Catalog Description	on (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 Major	rs: 🗌 Elective for	Majors: 🗌			
	is course has not bee ach it in the near futu		e past 10 yea	rs, and there are	no plans to
10. Semesters previo	ously offered as an ex	perimental cours	e (101, 201, 3	01, 401):	
11. List all co-listed o	ourses, initialed by D	ept. Chair, if sign	ature does not	appear below.	
1)	2)		3)		
4)	5)	2100	6)		9/1/2
Recommended by De	partment	(Chair signature)	111	Dat	e: <u>/// ///</u> /
Recommended by Dis	scipline Specific Curric	cula Committee (Chair signature)	' Malle	Dat	e: 9/01/07
Approved by Curricul	a Committee:	(Chair signature)		Dat	e:
Approved by Faculty	Senate:	(Chair signature)		Dat	e:

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Date: 10/15/2009 9:30:39 AM

From: 573 341 4362

Effective Year: 2010

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Date: 9/25/2009 10:58:13 AM

cc File # 7811-2009- Emet - 200-20 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 🔲 Prorequisites 🔲 Course Title 🗔 Catalog Description 🗀 Course Number [1] 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: Present: COOP Engr Training 3. Course Title: 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: S. If course requires field trip check box:  $\square$ Lab: Total: Present: Lecture: 6. Credit Hours: Lecture: Lab: Totali Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 8. Required for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 2) 3) 1) 6) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature)/ Date: Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: . (Chair signature) (Revised 1/31/08) 08/19/09

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Fall 🔲

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Spring 🖾

Date: 10/15/2009 9:30:40 AM

cc File # 7812-2009-Emech-311-20

From: 573 341 4362 Page: 2/34

Effective Year: 2010

Effective Term: Summer 🔲

Date: 9/25/2009 10:58:13 AM

	This form is for cr	Change eating or modify	Form (Ging permanent	CC) courses.		
Course Changes			_		. =	
New Course 🔲	Course Deletion 🖾 _		Hours 🗆 _	Prerequisi	'	
Course Title 🔲 Catalog Description				Co-listing 🗆		
	lon (1-9 Must Be Comp		posed" items bia	ink it no changi	s is being made.)	
	echanical and Aerospac					
2. Discipline and C	ourse Number: Pro	<del>:sent :</del> Engineeri	ng Mechanics 3	311 Propos	ed:	
<del></del>	esent: Introd To Con oposed:	tinuum Mech				
Abbreviated Co	urse Title:		· Carrenge on Til	He Changes \		
4. Catalog Description Present:	4 Spaces or Less. Only on (40 Words or Less)	, Veeded for Mew	Codises of Th	de clianges.		
		٠.				
Proposed:						
5. If course requires	; field trip check box: [	⊐				
6. Credit Hours:	Present: Propo <del>se</del> d:	Lecture: Lecture:	Lab: Lab:	Total: Total:		
7. Prerequisites: Present:	·					
Proposed:						
8. Required for Majo	rs: 🗌 Elective for	Majors: 🔲				
m	he engineering mechar lore students enrolled. :named/renumbered u	All engineering	mechanics cou	rses will eithe	r be eliminated or	
	iously offered as an ex courses, initialed by D 2)				w.	
•	_		6)			
4)	5) / <sub>1</sub> /	1/2010	2		40/01/01	
Recommended by D	epartment	(Chair signature)	0		Date: <i>08/31/09</i> Date: 10-6/09	
Recommended by D	iscipline Specific Curtic	cula Committee (Chair signature)	Jung Ben	h	Date: 10-6~04	
Approved by Curricu	ila Committee:	(Chair signature)			Date:	
Approved by Faculty	Senate:		<u></u>		Date:	
enter and the second		(Chair signature)			/poulsed 1/31/08\	

From: 573 341 4362

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Date: 10/15/2009 9:30:40 AM

Date: 9/25/2009 10:58:13 AM

Effective Year: 2010
Effective Term: Summer 
Fall Spring

cc File # 78/3-209-Emech-341-20

	Course (	Change	Form (	CC)	
	This form is for cre				
Course Changes	(Check all changes.)				_
New Course 🖽	Course Deletion 🗵		Hours 🔲 _	Prerequis	
Course Title 🔲	Catalog Description 🗔		Number 🛄	Co-listing	_
Course Informat	tion (1-9 Must Be Compl	eted. <b>Leave "</b> Pro	posed" Items bl	ank if no chang	e is being made.)
The state of the s	echanical and Aerospace				
2. Discipline and C	Course Number: Pre:	<b>sent :</b> Engineeri	ng Mechanics	341 Propos	ed:
	esent: Exper Stress A oposed:	nalysis I			
Abbreviated Co	urse Title:		<u> </u>	u. 66 \	
(2 4. Catalog Descripti Present:	4 Spaces or Less. Only on (40 Words or Less)	needed for Nev	Courses or Ti	tie Changes.)	
Prescut:					
					,
Proposed:					
		•			
5. If course requires	s field trip check bax: 🗆	!		_	
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
Proposed:					•
8. Required for Majo		7			
11	he engineering mechani nore students enrolled. / enamed/renumbered us	All engineering	mechanics cou	ırses Will eithe	er be eliminated or
			/101 201 <sup>-</sup>	301 4011:	
10. Semesters prev	lously offered as an exp courses, initialed by De	or Chair if sid	nature does no	st appear belo	·w.
	2)	the cuant is aid.	3)		
1)	. <b>*</b> /		-,		
4)	5)	بمح	6)		
Recommended by D	enartment //o/	M/Mid	ha _		Date: 08/31/09
MECOLIMISMOCA DA D	eborcuour	(Chair signature)			Date: 08/31/09
Recommended by D	iscipline Specific Curric	la Committee) (Chair signature)	feny 4 B	englis	Date: 10-6-09
المستريدية المستريدية	ila Committee:	'	V		Date:
Approved by Curricu	Jid CVIIIIIIIIIIII	(Chair signature)			
والمراجع المراجع المرا	, Conster				Date:
Approved by racuity	/ Senate:	(Chair signature)			
08/19/0 <del>9</del>					(Revised 1/31/08)

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Date: 10/15/2009 9:30:40 AM

From: 573 341 4362

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Date: 9/25/2009 10:58:14 AM

CC File #7814-2009- Fresh-2012-20 Effective Year: 2010 Fall 🗆 Spring 🖾 Effective Term: Summer 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🛄 Credit Hours New Course [ Course Deletion 🖾 Course Number Co-listing 🛄 Catalog Description 🗔 Course Title ... Course Information (1-9 Must Be Completed. Leave "Proposed" items blank if no change is being made.) 1. Department: Machanical 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: 🗀 Total: Lab: 6. Credit Hours: Lecture: Present: Total: Lecture: Labi Proposed: 7. Preregulsites: Present: Proposed: Elective for Majors: 8. Required for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: . (Chair signature) Date: Approved by Faculty Senate: ... (Chair signature)

(Revised 1/31/08)

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Date: 10/15/2009 9:30:41 AM

From: 573 341 4362

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Date: 9/25/2009 10:58:14 AM

Effective Year: 2010
Effective Term: Summer | Fall | Spring |

cc File # 7815-2009-Enah-390-20

## Course Change Form (CC)

0	This form is for cre	eating or modify	ing permanen	t courses.	
	(Check all changes.)	- 11-1		<b></b>	
New Course 🔲	Course Deletion 🗵	_	lours 🗆 🗀	Prerequisites 🔲	
Course Title 🗆	Catalog Description	-	Number 🔲	Co-listing 🗆	
	ation (1-9 Must Be Comp	·	oosed" Items bi	ank if no change is bei	ng made.)
	Mechanical and Aerospac				
2. Discipline and	Course Number: Pre	sent : Engineeri	ng Mechanics	390 Proposed:	
3. Course Title:	Present: Undergraduat	e Research			
	Proposed:				
Abbreviated C	<b>'ourse Title:</b> (24 Spaces or Less. Only	needed for New	Courses or Ti	tle Changes.)	
	tion (40 Words or Less)				
Proposed:		•			
5. If course requir	es field trip check box: 🗆	]		_	
6. Credit Hours:	Present:	Lecture:	Lab:	Totalı	
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
8. Required for Ma	jors: 🗌	Majors: 🔲			
	The engineering mechan more students enrolled. renamed/renumbered us	All angineering r	nechanics cou	rses will either be ei	are no iminated or
10. Semesters pre	viously offered as an exp	erimental cours	e (101, 201, 3	101, 401):	
	d courses, initialed by De				
1)	2)		3)		
43	<b>#</b> \	_	6)		
4)	5)	1 1/100	0		~ 0 M 1/AA
Recommended by	Department	(Chair signature)	<u>ka                                     </u>	Date:	08/31/09
Recommended by	Discipline Specific Curricu	la Committee (Chair signature)	emy Be	Date:	10-6-09
Approved by Curric	cula Committee:	(Chair signature)	<u> </u>	Date:	
Approved by Facul	ty Senate:	(Chair signature)	<u></u>	Date:	· · · · · · · · · · · · · · · · · · ·
08/19/09				1	Revised 1/31/08)

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Date: 10/15/2009 9:30:41 AM

From: 573 341 4362 Page: 6/34 Date:

Date: 9/25/2009 10:58:14 AM

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

08/19/09

cc File # 78/le-2009-Emech - 463-20

(Revised 1/31/08)

## Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗒 New Course 🔲 Course Deletion 🖾 Credit Hours Course Number 🔲 Co-listing 🗌 Course Title 🗍 Catalog Description [ 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 Proposedi 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: Total: Labi Present: Lecture: 6. Credit Hours: Lab: Total: Proposed: Lectures 7. Prorequisites: Present: Proposed: Elective for Majors: 8. Required 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. 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. 2) 3) 1) 6) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: , Approved by Faculty Senate: \_ (Chair signature)

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Date: 10/15/2009 9:30:41 AM

From: 573 341 4362 Page: 7/34 Date: 9/25/2009 10:58:15 AM cc File # 7817-2009 - Emech -487-20 Effective Year: 2010 Effective Term: Summer 🗍 Fati 🗀 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Course Deletion ⊠ New Course ... 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: Total: Lecture: Lab: 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. 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. 2) 3) 5) Recommended by Department Recommended by Discipline Specific Curricula Committee. (Chair signature) Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: (Chair signature) (Revised 1/31/08) 08/19/09

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Date: 10/15/2009 9:30:42 AM

From: 573 341 4362 Date: 9/25/2009 10:58:15 AM Page: 8/34 cc File # 7819-2009-Emech-10-20 Effective Year: 2010 Effective Term: Summer 🔲 Fall 🔲 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🔲 Prerequisites 🔲 New Course 🗌 Course Deletion 🖾 Course Title 🗌 Catalog Description 🔲 Course Number 🔲 Co-listing 🔲 Course Information (1-9 Must Se 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: Lab: Total: Locture: Proposed: Lecture: Labi 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. 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. 2) 1) 3) 4) 5) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date: . (Chair signature)

(Chair signature) (Revised 1/31/08) 08/19/09

Approved by Faculty Senate: \_

Date: \_

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Date: 10/15/2009 9:30:42 AM

Date: 9/25/2009 10:58:15 AM From: 573 341 4362 Page: 9/34

Effective Year: 2010

Approved by Faculty Senate: \_

08/19/09

Spring 🗵 Fall 🔲

cc File # 7820-2009-Emach-201-20

Date: \_

(Revised 1/31/08)

## Effective Term: Summer 🗆 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗌 Credit Hours 🔲 Course Deletion New Course 🗌 Co-listing 🔲 Course Number 🔲 Catalog Description 🗆 Course Title 🔲 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: Present: Special Topics 3. Course Title: 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: 🗌 Total: Labi Lecture: Present: 6. Credit Hours: Total: Lab: Lectures Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🗌 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 3) 1) E) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature)

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(Chair signature)

From: 573 341 4362 Page: 27/32 Date: 10/15/2009 9:30:42 AM

From: 573 341 4362

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Date: 9/25/2009 10:58:16 AM

CC File #7821-2009-Emech-2000-20 Effective Year: 2010 Fall 🔲 Spring 🗵 Effective Term: Summer 🛄 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🔲 Credit Hours 🔲 New Course 🗌 Course Deletion 🗵 Co-listing 🔲 Course Number 🔲 Catalog Description 🗀 Course Title 🔲 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 chuck box: 🔲 Total: Lecture: Lab: 6. Credit Hours: Present: Lecture: Lab: Total: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: ... 8. Required for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 3) 2) 4) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: \_ (Chair signature) Date: \_

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Approved by Faculty Senate: \_

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(Revised 1/31/08)

From: 573 341 4362 F

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Date: 10/15/2009 9:30:43 AM

From: 573 341 4362 Page: 11/34 Date: 9/25/2009 10:58:16 AM cc File # 7822-2009- Emech -301-20 Effective Year: 2010 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: 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: 🛄 5. Credit Hours: Present: Lecture: Lab: Total: Proposed: Lab: Lectures Total: 7. Prerequisites: Present: Proposed: B. 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 proviously offered as an experimental course (101, 201, 301, 401): 11. List all co-listed courses, initialed by Dopt. Chair, if signature does not appear below. 1) 2) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date:

(Revised 1/31/09)

Date:

(Chair signature)

(Chair signature)

Approved by Faculty Senate:

08/19/09

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08/19/09

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Date: 10/15/2009 9:30:43 AM

Date: 9/25/2009 10:58:16 AM From: 573 341 4362 Page: 12/34 CC File # 7823-2009- Emech-201-20 Effective Year: 2010 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 Number -Course Title 🔲 Catalog Description 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: Abbraviated Course Title: (24 Spaces or Less. Only needed for New Courses or Title Changes.) 4. Catalog Description (40 Words or Less) Present: Proposedi 5. If course requires field trip check box: 6. Cradit Hours: Present: Locture: 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. 2) 3) 6) \_\_\_ Date: *QB|31|09* Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date: (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

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From: 573 341 4362

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Date: 10/15/2009 9:30:43 AM

Date: 9/25/2009 10:58:17 AM

cc File # 7824-2009- Gmedi-310-20 Effective Year: 2010 Effective Term: Summer 🔲 Fall 🔲 Spring 🗵 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🔲 New Course 🔲 Course Deletion 🗵 Credit Hours Co-listing 🔲 Course Number Course Title ... Catalog Description 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: Present: Seminar 3. Course Title: 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: 🔲 Total: 6. Credit Hours: Present: Locture: Lab: Proposed: Total: Lecture: Labi 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. 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. 2) 1) 4) 6) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: \_\_ Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08) 08/19/09

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Date: 10/15/2009 9:30:44 AM

From: 573 341 4362 Page: 14/34 Date: 9/25/2009 10:58:17 AM cc File #7825-2009 - Emech -322-20 Effective Year: 2010 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 🛄 Credit Hours Prerequisites 🗌 Course Deletion Course Number 🗔 Co-listing 🔲 Course Title 🔲 Catalog Description 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 Lass) Present: Proposedi 5. If course requires field trip check box: 🔲 Total: 6. Credit Hours: Present: Lecture: Lab: Labi Total: Lecture: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors:  $\square$ 8. Required 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) 5) 4) Recommended by Department Date: <u>いし</u>~09 Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_

Approved by Curricula Committee: . (Chair signature)

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

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(Revised 1/31/08)

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Date: 10/15/2009 9:30:44 AM

From: 573 341 4362 Page: 15/34 Date: 9/25/2009 10:58:17 AM Effective Year: 2010 cc File # 1826=2009-Imach-329-20 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: 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: **Total:** Lab: 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. Semosters 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) 6) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: (Chair signature) Date: \_ Approved by Faculty Senate: (Chair signature) (Revised 1/31/08) 08/19/09

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Date: 10/15/2009 9:37:35 AM

From: 573 341 4362

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Date: 9/25/2009 10:58:18 AM

cc File #7827-2009- Emech-334-20 Effective Year: 2010 Effective Term: Summer 🔲 Fail 🔲 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🔲 Credit Hours Course Deletion 🖾 New Course [] Co-listing 🔲 Catalog Description  $\square$ Course Number 🛄 Course Title 🗌 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: Present: Stability of Engr Struct 3. Course Title: 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: S. If course requires field trip check box: 🗔 Total: Lecture: Lab: Present: 6. Credit Hours: Total: Lab: Lecture: Proposed: 7. Prerequisites: Present: Proposed: 8. Required for Majors: 🗀 Elective for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 2) 3) 1) 6) 5) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: . Approved by Faculty Senate: \_ (Chair signature)

08/19/09

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(Revised 1/31/08)

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Date: 10/15/2009 9:37:36 AM

From: 573 341 4362 Date: 9/25/2009 10:58:18 AM Page: 17/34 Effective Year: 2010 CC File # 7828-2009- Frank-3-6-25 Effective Term: Summer 🔲 Fall 🔲 Sorina 🕅 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) New Course [7] 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.) Department: Mechanical and Aerospace Engineering 2. Discipline and Course Number: Present: Engineering Mechanics 336 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: Labi Total: Proposed: Total: Lectures Lab: 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. 2) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee:

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Approved by Faculty Senate: \_\_ Date:

(Chair signature)

Date:

(Revised 1/31/08)

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Date: 10/15/2009 9:37:36 AM

From: 573 341 4362

Effective Year: 2010

08/19/09

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Date: 9/25/2009 10:58:18 AM

CC File # 7829-2009-Emck=337-27

Spring 🗵 Fall 🔲 Effective Term: Summer 🗔 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Prerequisites 🗔 Credit Hours Course Deletion 🖾 New Course 🗌 Co-listing 🔲 Course Number 🗆 Catalog Description  $\square$ Course Title 🗀 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: Present: Fatigue Analysis 3. Course Title: 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: 🗔 Total: Lab: Present: Lecture: 6. Credit Hours: Total: Labi Proposed: Lecture: 7. Prerequisites: **Present:** Proposed: Elective for Majors: 🗆 8. Required for Majors: 🗔 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 2) 1) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: . Approved by Curricula Committee: , (Chair signature) Date: . Approved by Faculty Senate: ... (Chair signature) (Revised 1/31/08)

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Date: 10/15/2009 9:37:36 AM

CC File #7830-209-Enech-3/01-20

From: 573 341 4362

Fall 🔲

Effective Year: 2010

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Spring 🖾

Date: 9/25/2009 10:58:19 AM

Effective Term: Summer 🗆 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours Prerequisites 🔲 Course Deletion 🗵 New Course 🛄 Co-listing 🗌 Course Number 🗌 Catalog Description 🗌 Course Title 🗀 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: Present: Vibrations I 3. Course Title: 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:  $\square$ Total: Lecture: Lab: Present: 6. Credit Hours: Total: Lecture: Lab: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 8. Required for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 3) 2) 1) 6) 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08) 08/19/09

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Date: 10/15/2009 9:37:37 AM

Date: 9/25/2009 10:58:19 AM Page: 20/34 From: 573 341 4362 cc File # 7831-2019- Emech-381-20 Effective Year: 2010 Effective Term: Summer 🔲 Pall 🔲 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 Number 🔲 Co-listing 🔲 Course Title 🔲 Catalog Description 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 Mtris/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: 🔲 Total: 6. Credit Hours: Present: Lecture: Labi Total: Proposed: Lecture: Lab: 7. Prerequisites: Present: Proposed: S. 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)

Recommended by Discipline Specific Curricula Committee

(Chair signature)

Approved by Curricula Committee:

Approved by Faculty Senate:

Recommended by Department

08/19/09

Date:

Date: \_

(Revised 1/31/08)

(Chair signature)

(Chair signature)

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Date: 10/15/2009 9:37:37 AM

Date: 9/25/2009 10:58:19 AM Page: 21/34 From: 573 341 4362 CC File # 7832-2009- Emech-4005-20 Effective Year: 2010 Spring 🖾 Effective Term: Summer -Fall 🗌 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours Prerequisites New Course 🛄 Course Deletion ⊠ Course Number Co-listing 🔲 Course Title 🔲 Catalog Description 🔲 Course Information (1-9 Must Be Completed. Leave "Proposed" Items blank if no change is being made.) 1. Department: Mechanical and Aerospace Engineering Proposed: 2. Discipline and Course Number: Present: Engineering Mechanics 400 Present: Special Problems 3. Course Title: 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: 🗌 Total: 6. Credit Hours: Present: Lab: Lectures Total: Proposed: Lecture: Lab: 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) 3) 3) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: , Date: \_ (Chair signature) Date: \_\_\_ Approved by Faculty Senate:

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(Chair signature)

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From: 573 341 4362 Pa

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Date: 10/15/2009 9:37:37 AM

From: 573 341 4362 Date: 9/25/2009 10:58:20 AM Page: 22/34 cc File # 7833-2009- Enach-401-20 Effective Year: 2010 Fall 🗌 Spring 🗵 Effective Term: Summer 🗌 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🗆 Prerequisites 🔲 Course Deletion 🛛 New Course 🖂 Co-listing 🔲 Catalog Description 🗌 Course Number 🗔 Course Title 🗌 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: Present: Special Topics 3. Course Title: 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 regulres field trip check box:  $\square$ Total: Lab: Present: Lecture: 6. Credit Hours: Total: Lab: Lecture: Proposed: 7. Prerequisites: Present: Proposed: Elective for Majors: 🗆 8, Required for Majors: 🗌 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 3) 2) 1) 5) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) / Date: Approved by Curricula Committee: . (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature)

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From: 573 341 4362 Page: 8/31 Date: 10/15/2009 9:37:38 AM

From: 573 341 4362

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Date: 9/25/2009 10:58:20 AM

cc File #7834-2009-Emech-408-20 Effective Year: 2010 Effective Term: Summer Fall 🔲 Spring 🖾 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours 🔲 Prerequisites 🔲 New Course 🗆 Course Deletion Co-listing 🔲 Catalog Description 🗔 Course Number 🗔 Course Title 🔲 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: Present: Finite Floment 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: 🔲 **Total:** 6. Credit Hours: Present: Lecture: Lab: Total: Lab: Proposed: Lecture: 7. Prerequisites: Present: Proposed: 8. Required for Majors: 🗒 Elective for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 2) 3) 1) S) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate:. (Chair signature) (Revised 1/31/08)

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Date: 10/15/2009 9:37:38 AM

From: 573 341 4362 Page: 24/34 Date: 9/25/2009 10:58:20 AM cc File #7835-2009-Enech-410-21) Effective Year: 2010 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: 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: Lab: Total: Lecture: Total: Proposed: Lecture: Lab: 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. Semesters previously offered as an experimental course (101, 201, 301, 401): List all co-listed courses, initialed by Dept. Chair, if signature does not appear below. 2) 3) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate:. (Chair signature) (Revised 1/31/08) 08/19/09

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Date: 10/15/2009 9:37:38 AM

From: 573 341 4362 Page: 25/34 Date: 9/25/2009 10:58:21 AM cc File # 7836-2009- Frech -431-20 Effective Year: 2010 Spring 🖾 Effective Term: Summer 🔲 Fall 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours ... Prerequisites 🗔 Course Deletion 🖾 New Course 🗔 Co-listing 🔲 Course Number Course Title 🔲 Catalog Description 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: 🔲 Labi Total: Lecture: 6. Credit Hours: Present: Total: Lab: Proposed: Lecture: 7. Prerequisites: Present: Proposed: 8. Required for Majors: 🔲 Elective for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 2) 1) 6) 51 4) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee:

08/19/09

Approved by Faculty Senate: \_

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Date:

(Revised 1/31/08)

(Chair signature)

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Page: 11/31

Date: 10/15/2009 9:37:39 AM

Date: 9/25/2009 10:58:21 AM From: 573 341 4362 Page: 26/34 CC File # 7837-2009-Emech-432-21 Effective Year: 2010 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.) 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: Total: Locture: Lab: 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. 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. 2) 3) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Approved by Curricula Committee: Date: (Chair signature) Date: Approved by Faculty Senate: (Chair signature) (Revised 1/31/08) 08/19/09

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Date: 10/15/2009 9:37:39 AM

From: 573 341 4362 Page: 27/34 Date: 9/25/2009 10:58:21 AM cc File # 7838-2009- Evech-436-20 Effective Year: 2010 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: 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: Labr 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. 2) 5) 6) Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee Date: 10. (Chair signature) Approved by Curricula Committee: \_ Date: (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

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Page: 13/31

Date: 10/15/2009 9:37:39 AM

Page: 28/34 Date: 9/25/2009 10:58:22 AM From: 573 341 4362 CC File # 7839-2009-Emech-402-20 Effective Year: 2010 Spring 🖾 Effective Term: Summer 🔲 Fal! 🔲 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Course Deletion 🖾 Credit Hours Prerequisites 🔲 New Course 🗌 Course Number 🔲 Co-listing 🔲 Catalog Description Course Title 🔲 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: 🗆 Total: :طما Lecture: Present: 6. Credit Hours: Total: Lab: Proposed: Lecture: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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) **6**) 4) Date: 08/3//09 Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature)

Date: Approved by Curricula Committee: (Chair signature)

Date: Approved by Faculty Senate:. (Chair signature)

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From: 573 341 4362 Page: 14/31 Date: 10/15/2009 9:37:40 AM

From: 573 341 4362

Page: 29/34

Date: 9/25/2009 10:58:22 AM

Effective Year: 2010 Effective Term: Summ		Spring 🗵	CC File :	# 7840-2004-EMOON-483-
Course Changes (C	This form is for c	Change reating or modify	Form (	CC) : courses.
	ourse Deletion 🗵	Credit	Hours 🛄	Prerequisites 🔲
	atalog Description		Number 🗆	Co-listing
· · · · · · · · · · · · · · · · · · ·	- , ,	• •	posed" items bla	ink if no change is being made.)
1. Department: Mech	<del></del>	-	•	
2. Discipline and Cou	•		ing Mechanics 4	483 Proposed:
3. Course Title: Pres		<del>-</del>		
Abbreviated Cours				
(24 S 4. Catalog Description Present:	ipaces or Less. Only (40 Words or Less)	y n <del>ee</del> ded for New	V Courses or Til	cle Changes.)
Proposed:				,
5. If course requires fie	aid trip check box: [	_		
6. Credit Hours:	Present:	Lecture:	Lab:	Total:
7. Prerequisites: Present:	Proposed:	Lecture:	Lab:	Total:
Proposed:				
more	engineering mechar	nics programs ha All engineering :	nechanics cour	continued and there are no ses will either be eliminated or er than ENG MECH.
10. Semesters previous 11. List all co-listed cou	*	•	- •	•
4)	5) 4		6)	
Recommended by Depa		(Chair signature)	h	Date: <u>08/3//09</u>
Recommended by Discip	aline Specific Curric		Jany A Ba	Date: 08/3//09  Date: 10-6-09
Approved by Curricula C	Committee:	(Chair signature)	<u> </u>	Date:
Approved by Faculty Se	nate:			Date:
		(Chair signature)		(Revised 1/31/08)

08/19/09

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Date: 10/15/2009 9:37:40 AM

Date: 9/25/2009 10:58:23 AM From: 573 341 4362 Page: 30/34 CC FILE # 7841-2009- Emech-484-20 Effective Year: 2010 Effective Term: Summer 🗌 Pall 🔲 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: 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:  $\Box$ Present: Total: 6. Credit Hours: Lecture: Lab: Total: Lab: Proposed: Lecture: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Required for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: more students enrolled. All engineering mechanics courses will either be eliminated or renamed/renumbered using a curricular designator other than ENG MECH. 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. Recommended by Department (Chair signature) Recommended by Discipline Specific Curricula Committee (Chair signature) Date: Approved by Curricula Committee: (Chair signature) Date: Approved by Faculty Senate: \_ (Chair signature) 08/19/09 (Revised 1/31/08)

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Date: 10/15/2009 9:37:40 AM

From: 573 341 4362 Page: 31/34

08/19/09

Date: 9/25/2009 10:58:23 AM

Effective Year:		Spring 🖾	CC File #	1842-2009-	<sup>E</sup> mech-490-20
		.,			
		Change			
Course Chang	This form is for ca es (Check all changes.)	reating or modify	iliā bermaneur	conises.	
New Course 🗔	Course Deletion	Credit	Hours 🗆	Prerequisites 🗌	
Course Title	Catalog Description		Number 🗆	Co-listing 🔲	
	nation (1-9 Must Be Com	•	posed" items bla	nk if no change is being	ı made.)
	Mechanical and Aerospa		•		
-	d Course Number: Pr		ng Mechanics 4	90 Proposed:	
3. Course Title:	Present: Research Proposed:				
Abbreviated	- · · · • · · ·				
<b>7-4</b>	(24 Spaces or Less. Only	/ needed for New	, Courses or Tit	le Changes.)	
· <del>-</del>	ption (40 Words or Less)				
Present:					
Proposed:					
5. If course requi	res field trip check box: [				
6. Credit Hours	Present:	Lecture:	Labi	Total:	
	Proposed:	Lecture:	Lab:	Total:	
7. Prerequisites: Present:					
Proposed:					
8. Required for M	ajors: 🗌 Elective for	Majors: 🗌			
9. Justification:	The engineering mechan more students enrolled. renamed/renumbered u	All engineering i	mechanics cour	ses will either be elln	re no ninated or
10 Camastave N	eviously offered as an ex	nerimental cour	sa (101, 201, 3)	01. 401\:	
•	ed courses, initialed by D				
1)	2)		3)		
-,	-4		_		
4)	5) /	1 1	6)		
Recommended by	Department _ ///	rd Mid	ha	Date: 🚄	<u>18/31/09</u> 0-6-09
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Recommended by	Discipline Specific Curric	ula Committee (Chair signature)	fun pp	eulu Date:	0-6-09
Approved by Curr	icula Committee:			Date:	, 
*		(Chair signature)			
Anneaved by Facts	ity Sanate:			Date:	

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(Chair signature)

From: 573 341 4362 Page: 17/31 Date: 10/15/2009 9:37:41 AM

From: 573 341 4362

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Date: 9/25/2009 10:58:23 AM

cc File # 7843 - 2009 - Enech -493-20 Effective Year: 2010 Effective Term: Summer 🔲 Fail 🛄 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 🗀 Co-listing 🗐 Course Number 🖂 Course Title 🔲 Catalog Description 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: 🗀 Total: Lab: Present: Lectures 6. Credit Hours: Total: Proposed: Lecture: Lab: 7. Prerequisites: Present: Proposed: Elective for Majors: 🔲 8. Regulred for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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 pept. Chair, if signature does not appear below. 3) 2) 1) 4) Recommended by Department Chair signature Recommended by Discipline Specific Curricula Committee (Chair signature) Date: . Approved by Curricula Committee; (Chair signature) Date: . Approved by Faculty Senate: \_ (Chair signature)

08/19/09

From: 573 341 4362 Page: 18/31 Date: 10/15/2009 9:37:41 AM

From: 573 341 4362

Page: 33/34

Date: 9/25/2009 10:58:24 AM

cc File # 1844-2009-Emich-495-20 Effective Year: 2010 Spring 🖾 Fall 🗀 Effective Term: Summer 🗔 Course Change Form (CC) This form is for creating or modifying permanent courses. Course Changes (Check all changes.) Credit Hours Prerequisites 🔲 New Course 🗌 Course Deletion 🗵 Co-listing 🔲 Course Number 🔲 Course Title 🔲 Catalog Description 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: Present: Continuous Registration 3. Course Title: 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: 🔲 Total: Labi Present: Lecture: 6. Credit Hours: Total: Proposed: Labi Lecture: 7. Prerequisites: Present: Proposed: Elective for Majors: 8. Regulred for Majors: 🔲 The engineering mechanics programs have all been discontinued and there are no 9. Justification: 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. 3) 2) 1) 4) Recommended by Department Recommended by Discipline Specific Curricula Committee (Chair signature) Date: \_ Approved by Curricula Committee: \_ (Chair signature) Date: \_ Approved by Faculty Senate: \_ (Chair signature) (Revised 1/31/08)

08/19/09

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Date: 10/15/2009 9:37:41 AM

Effective Year: 201 Effective Term: Sum		Spring 🛚	CC File	#7856-L	09-Musc-171-21
	Course	Change	Form (	CC)	
		creating or modify			
Course Changes	·		_		_
New Course 🗌	Course Deletion 🗵		Hours 🗌	Prerequisi	
	Catalog Description	-	Number 🗀	Co-listing	
<u>Course Informati</u>	on (1-9 Must Be Con	npleted. Leave "Pro	posed" items b	lank if no change	e is being made.)
<ol> <li>Department: Art</li> </ol>	s, Languages and Ph	nilosophy			
2. Discipline and Co	ourse Number: P	resent : Music 17:	l Pro	posed:	
3. Course Title: Pre	sent: Intro Electro	nic Music			
	pposed:				
Abbreviated Cou	r <b>se Title:</b> - Spaces or Less. On	h, pooded for Nov	. Courses or T	itle Changes \	
4. Catalog Descriptio Present:	n (40 Words or Less)	ly Reeded for New	Courses of T	the changes.	
Proposed:					
5. If course requires	field trip check box:		_		
6. Credit Hours:	Present:	Lecture:	Lab:	Total:	
7. Prerequisites; Present:	Proposed:	Lecture:	Lab:	Total:	
Proposed:					
B. Required for Major	s: 🗍 Elective fo	or Majors: 🗌			
9. Justification: Th	is course has not be ach it in the near fut	en taught within t	he past 10 ye	ars, and there	are no plans to
10. Semesters previo	ously offered as an e	xperimental cour	se (101, 201,	301, 401):	
11. List all co-listed o	ourses, initialed by	Dept. Chair, if sigi	nature does n	ot appear belov	N.
1)	2)		3)		
4)	5)	Wh	6)		Date: 9/17/59
Recommended by De	partment	(Chair signature)	1 10		Date, <u>7// 2/_6/</u>
Recommended by Dis	scipline Specific Curr	icula Committee _ (Chair signature)	[Boonen		Date: 9/1/09
Approved by Curricula	a Committee				Date:
approved by carrieque		(Chair signature)			<del></del>
Approved by Faculty:	Senate:				Date:
approved by recuity.		(Chair signature)			<del></del>

From: 573 341 4362 Page: 20/31 Date: 10/15/2009 9:37:42 AM

Effective Year: 20 Effective Term: Sun		Spring 🛚	EC File # 2202-S	P2010-BioSci-401	
	Experime	ntal Course	e Form (EC	)	
department chair's	filed with the Secre s notation, by the a he Schedule of Class	ppropriate deadlin	e. Filing deadlines		
		Fall Semester Offe ster Offerings Au	erings – January 1 ugust 1		
An experimental c	pe submitted each so course that is require ed on one form, orig	ed should be subm	litted on a CC form.	eed two offerings. . <i>Co-listed offerings</i>	
Department: Biolog					
Discipline and Cou	الم المراقعة	1 - 12AZED			
Course Title: Advar	nced Toxciology	AONANCED			
Abbreviated Title (	(24 spaces or less):	Ady Toxicology			
Instructor(s): Yue-	wern Huang				
Credit Hours:	Lecture: 3	Lab: 0	Total: 3		
Prerequisites: G	raduate standing and	Bio 211 and Bio 231			
Semester(s) previ	ously taught: SP 200	08			
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 co	urses: Include initial 2)	s of Dept. Chair, if si	gnature is not alread 3)	y included below.	
4)	5)		6)		
Department Chair: _	To ho	Chair Signal	ture)	Date: 10/(2/09	
Discipline Specific Cu	rrícula Committee:	Chair signat	ure)	Date: 10/14/2009	

(Revised 1/31/2008)

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

Curricula Committee: \_\_\_\_\_

(Chair Signature)

Page: 21/31 Date: 10/15/2009 9:37:42 AM From: 573 341 4362

From: 573 341 4362

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Date: 9/18/2009 2:53:35 PM

Effective Year: 2010 Effective Term: Summer 🗌

Spring 🖾 Fall 🖸

EC File #2203- 5p 2010-6-E-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. <i>Co-listed offerings</i> should be submitted on one form, originating from the primary discipline.							
Department: Geolo	ogical Sciences and	Engineering					
Discipline and Cou							
Course Title: Geold	ogy and Engineering	g of Ancient and	Modern Peru				
Abbrevlated Title	(24 spaces or les	s): Geo Engines	ering 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							
1) 4) Department Chair:	ourses: Include in 2) 5)	hut -X	6) fully fir Signature)	not already included below.  Date: 9/1/04			
Discipline Specific C		V	ir signature)	Date:			
одписым озими		(Cha	ir Signature)				

From: 573 341 4362 Page: 22/31 Date: 10/15/2009 9:37:42 AM

From: 573 341 4362

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Date: 9/18/2009 2:53:35 PM

Effective Year: 2010

EC File # 2204- Sp2010-6-E-401

Spring 🖾 Effective Term: Summer 🗵 Fall 🗀

# 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.

Depar	tment:	GSE
-------	--------	-----

Discipline and Course Number: GE 401

Course Title: Surface Waves

& 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: Incit 1)	ide initials of Dept. Chair, if sign 2)	nature is not already 3)	included below.
4)	5)	6)	-1.1-
Department Chair: WA	Chair Signatu	re)	Date: 9///0
Discipline Specific Curricula Com	_		Date: 9-11-89
Curricula Committee:	(Chair Signatu	-e)	Date:

(Revised 1/31/2008)

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Date: 10/15/2009 9:37:43 AM

From: 573 341 4362

Page: 18/20

Date: 9/18/2009 2:53:35 PM

Effective Year: 2010 Effective Term: Summer [

Fall 🔲

Spring 🛭

ec File #2205-5p2010-Ler-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

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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, sophmore, 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: Incl 1)	iude initials of Dept. Chair, if signati 2)	ure is not already 3)	included below.
4)	5) /	6)	
Department Chair:	me Lueble		Date: 9/2/09
and the second s	(Chair Signature)		G - 4 1 A
Discipline Specific Curricula Con	nmittee: \(\frac{\text{\text{Chair signature}}}{\text{(chair signature)}}\)	<u> </u>	Date: 971609
Curricula Committee:	1		Date:
	(Chair Signature)		

09/02/09

From: 573 341 4362 Page: 24/31 Date: 10/15/2009 9:37:43 AM

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#### 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: maryrr@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 Halem, Glass Notes A Reference for The Glass Artist, (Frannklin Mills Press, Kent, OH, 2006).

Course Prerequisites:

Cer 104 or Met 125; freshmen, sophomore, or junior level

only (or by instructor permission).

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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 <a href="http://registrar.mst.edu/documents/academic regulations2007-2008.pdf">http://registrar.mst.edu/documents/academic regulations2007-2008.pdf</a>. 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

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Date: 9/25/2009 11:27:15 AM

Effective Year: 2010

Fall 🛄 Effective Term: Summer 🔲 Spring 🖾 EC File #2207-Sp2010-GE-401

## Experimental Course Form (EC)

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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 ( 1) CV ENG 401	courses: Include initials of Det P-9(9109 2)	ot. Chair, if signature is a 3)	not already	included below.
4)	5)	6)		_
Department Chair:	you Palut -	Chair Signature)	NA	Date: 9/1/09
Discipline Specific	Curricula Committee:			Date: 10-6-09
Curricula Committe	ee:	(Chair Signa <b>ć</b> ure)	****	Date:

(Revised 1/31/2008)

08/31/09

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Date: 9/25/2009 10:58:24 AM

Effective Year: 2010

Effective Term: Summer -

Fall 🗌

Spring 🗵

EC File #2208-SP2010- EE-30/

## 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:

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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.

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4)	5)	6)	
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Curricula Committee	·	<u> </u>	Date:
		(Chair Signature)	

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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. pulred should be submitted on a CC form. Co-listed offerings

An experimenta should be subm	itted on one form, or	ginating fro	m the primary disciplin	18.
<b>Department</b> : Ma	thematics and Statistics	1		
Discipline and C	ourse Number: STAT	401		
Course Title: Su	rvival Analysis			
Abbreviated Tit	le (24 spaces or less)	: Survival And	alysis	
Instructor(s): A	kim Adekpedjou			
Credit Hours:	Lecture: 3	Lab:	Total: 3	
Prerequisites:	Stat 343			
Semester(s) pro	eviously taught; SP08			
Students will be in	distributions, <b>M</b> athemati ips, proportional hazard	or analyzing s ical and graph	iurvival time data. Topics nical evaluations of goodn nsoring mechanisms, recu	622 of tir' combanishin
List all co-listed 1)	courses: Include Initia 2)	als of Dept. Cl	nair, if signature is not all 3)	ready included below.
4)	5)		6)	
Department Chair		(Chi	ur Signature)	Date: 9/23/09
Disciplina Specific	: Curricula Committee: (	(Cha	ir signature)	
Curricula Commit	t <del>ee</del> :	(Cha	ir Signature)	Date:
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Date: 10/9/2009 10:34:10 AM

Effective Year: 2010 Effective Term: Summer 🗆

Fail 🕱 Spring 🗆

EC File # 2217-F32010-BioSci-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:

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**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 course 1)	s: Include initials of Dept. 2)	Chair, if signature is not a 3)	ilready included below.
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Date: 10/15/2009 9:37:45 AM

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Date: 10/9/2009 10:34:11 AM

Effective Year: 2010 Effective Term: Summer 🗍

EC File #2218-F52010-BIOSci-411

## 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:

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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): Cancer Cell Biology

Instructor(s): Katie Shannon

Credit Hours:

Lecture: 3

Lab: 0

Total: 3

Prerequisit**e**s:

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. 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. 2) 3) 1) 6) 5) 4) Department Chair: (Chair Signature) Discipline Specific Curricula Committee: (Cháir signature) Date:

(Chair Signature)

(Revised 1/31/2008)

Curricula Committee: \_

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Effective Years 2010

From: 573 341 4362 Page: 16/16 Date: 10/9/2009 10:34:11 AM

Effective Term: Summer 🔲 🛮 Pall 🔯

EC File #222/- 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:

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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: 8id	ological Sciences					
Discipline and C	iourse Number: BIOS	CI101		•		
Course Title: Ge	netics: Decoding your (	genes				
Abbreviated Tit	le (24 spaces or less)	): Genetic Issue	<u>:</u> s			
Instructor(s): K	atie Shannon					
Credit Hours:	Lecture: 3	Lab: 0	Total: 3			
Prerequisites:	none					
Semester(s) pre	viously taught: FS06	(taught as BIO	SCI201)			
We will explore th inherited? What a	ire the societal implicat	genes? How do ions of genetic	our genes affect our ho knowledge? What is th equirement for Biology	e Human Genome		
List all co-listed 1)	courses: Include initia 2)	ils of Dept. Cha	lr, if signature is not ali 3)	ready included below.		
4)	5)		6)			
Department Chair:	Ro Aront	(Chair	Signature)	Date: 9 (29/05		
Discipline Specific	Curricula Committee:	Chair	Signature)	Date: 15/14 / 249		
Curricula Committe	ee; <u> </u>	(Chair S	Slonature	Date:		