



OFFICE OF THE REGISTRAR

103 Parker Hall
1870 Miner Circle
Rolla, MO 65409-0930
Phone: 573.341.4181
Fax: 573.341.4362
registrar@umr.edu
campus.umr.edu/registrar

Memo To: Academic Council
From: UMR Campus Curriculum Committee Meeting
RE: February 7, 2006 meeting

The UMR Campus Curricula Committee recommends to the Academic Council that the course changes on the following CC forms be approved.

Approved CC forms:

CC 7001, Computer Science 485, Distributed Systems Theory and Analysis. The following changes have been approved effective Fall 2006.

Course Number – Proposed: 484

Catalog Description – Proposed: Analysis of the problems of state maintenance and correctness in concurrent computing systems using formal methods such as Hoare Logic, Temporal Logic, and Symbolic Model Checking.

Prerequisites – Present: Cmp Sc 385 or Cmp Sc 387 and Cmp Sc 158
Proposed: Cmp Sc 384

CC 7002, History 382, The United States in Vietnam. New course approved effective Fall 2006.

Catalog Description: Through lecture, film and readings, this course examines the American experience in the Vietnam War. The course covers the causes and consequences of the war as well as its effect on those who fought and on American society as a whole. There is a special emphasis on the realities of combat and the war's impact on individual Americans.

Credit Hours: 3 hour lecture

Prerequisites: History 176

CC 7005, Philosophy 25, Ethics of Engineering Practice. The following changes are approved effective Fall 2006.

Course Number – Proposed: 225

Course Title – Proposed: Engineering Ethics

Prerequisites – Present: Entrance Requirements

Proposed: An introductory (below 100) level philosophy course

CC 7006, Philosophy 35, Business Ethics. The following changes have been approved effective Fall 2006.

Course Number – Proposed: 235

Prerequisites – Present: Entrance Requirements

Proposed: An introductory (below 100) level philosophy course

CC 7014, Management Systems 202, Cooperative Training in Management. Course deletion approved effective Spring 2006.



OFFICE OF THE REGISTRAR

103 Parker Hall
1870 Miner Circle
Rolla, MO 65409-0930
Phone: 573.341.4181
Fax: 573.341.4362
registrar@umr.edu
campus.umr.edu/registrar

CC 7015, Management Systems 302, Internship. Course deletion approved effective Spring 2006.

For the information of the Academic Council, the following EC forms have been submitted by the University departments for an experimental course that will be offered in the near future.

Approved EC forms:

EC 1762, Technical Communication 301, Introduction to Multimedia Authoring, approved effective Fall 2006.

Course Description: An Introduction to the theories of and practices in the uses of multimedia authoring in the technical communication fields.

Credit Hours: 3 hour lecture

Prerequisites: Tech Comm 65 or 240

EC 1765, Philosophy 101, Introduction to Ethics, approved effective Fall 2006.

Course Description: An introduction to the critical analysis of several ethical theories prominent in Western Philosophy, the nature of moral judgment, moral relativism, and one or more particular issue in applied ethics such as poverty, abortion, euthanasia, affirmative action, or the environment.

Credit Hours: 3 hour lecture

Prerequisites: None

EC 1767, Education 301, Language Essentials for Teachers of Reading & Spelling, approved effective Summer 2006.

Course Description: Participants will develop an understanding of comprehensive, research-based reading instruction and the ability to implement the instructional strategies in their classrooms. They will utilize frequent formal assessments to determine student mastery of concepts and skills and develop appropriate intervention strategies to ensure that all students are reading on grade level.

Credit Hours: 3 hour lecture

Prerequisites: Graduate Standing

EC 1768, Education 301, Scientifically Based Reading Instruction, approved effective Summer 2006.

Course Description: Participants will further develop an understanding of comprehensive, research-based reading instruction and the ability to implement the instructional strategies into their classrooms. This course is designed for teachers participating in the second year of the Reading First Program.

Credit Hours: 1 hour lecture

Prerequisites: Graduate Standing

**OFFICE OF THE REGISTRAR**

103 Parker Hall
1870 Miner Circle
Rolla, MO 65409-0930
Phone: 573.341.4181
Fax: 573.341.4362
registrar@umr.edu
campus.umr.edu/registrar

EC 1769, Education 301, Differentiating Instruction, approved effective Summer 2006.

Course Description: This course is designed to help participants develop lesson plans and instructional strategies that are challenging, engaging and responsive to a variety of needs, interests, learning styles and multiple intelligences of the students in their classrooms.

Credit hours: 1 hour lecture

Prerequisites: current K-12 educator

EC 1770, Education 301, Teachers' Academy: Effective Instructional Strategies, approved effective Summer 2006.

Course Description: Participants will develop an understanding of research-based instruction and the ability to implement the instructional strategies in their classrooms. In addition to effective instructional practices, the teachers' academy will focus on leadership, empowerment, collaboration and renewal.

Credit Hours: 3 hour lecture

Prerequisites: Graduate Standing

EC 1771, Chemistry 401, Spectrometric Identification of Organic Compounds, approved effective Fall 2006.

Course Description: Overview of MS and IR techniques in the characterization of organic compounds; CD/ORD; ¹H, ¹³C, and heteronuclear NMR spectroscopy in the structural analysis; applications of APT, DEPT, ¹H-¹H COSY, HETCOR, HMQC, HMBC, INADEQUATE, TOCSY, NOE and NOESY, and dynamic NMR.

Credit Hours: 3 hour lecture

Prerequisites: Chem 223

EC 1774, Biological Sciences 101, Biologywood: Untangling Facts from Fiction at the Movies, approved effective Spring 2007.

Course Description: Advances in biotechnology lead to Hollywood plots with a biology focus. Films influence society by disseminating facts or providing misinformation. In this course, popular movies are used to facilitate discussions of biology topics, help untangle facts from fiction, and show the role of public perceptions on science. Includes screenings of current and classic films, lectures, and discussions.

Credit Hours: 3 hour lecture

Prerequisites: None

EC 1775, Biological Sciences 301, Caribbean Biodiversity, approved effective Spring 2007.

Course Description: This course introduces students to the flora and fauna of San Salvador Island, Bahamas, and the surrounding coral reef communities. In addition to examining biodiversity, the course focuses on factors leading to enhancement and reduction of biodiversity and modern techniques to measure and monitor



OFFICE OF THE REGISTRAR

103 Parker Hall
1870 Miner Circle
Rolla, MO 65409-0930
Phone: 573.341.4181
Fax: 573.341.4362
registrar@umr.edu
campus.umr.edu/registrar

biodiversity. Topics include: biogeography, community structure, human impact, environmental change.

Credit Hours: Lecture: 1 Lab:2 Total: 3

Prerequisites: Bio Sci 110 or 111

EC 1776, Biological Sciences 401, Advanced Caribbean Biodiversity, approved effective Spring 2007.

Course Description: The course introduces students to the biota of San Salvador Island, Bahamas, and the surrounding coral reef communities. In addition to examining biodiversity, we focus on factors leading to enhancement and reduction of biodiversity and modern techniques to measure and monitor biodiversity.

Independent research projects and reading primary literature are required.

Credit hours: Lecture: 1 Lab: 2 Total: 3

Prerequisites: Graduate Standing

EC 1777, Biological Sciences 201, Biomedical Problems, approved effective Fall 2006.

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

Credit Hours: 3 hour lecture

Prerequisites: Bio Sc 110 or Bio Sc 111

J. Keith Nisbett, Chair
UMR Campus Curricula Committee