

Memo To: Faculty Senate
From: Missouri S&T Campus Curricula Committee Meeting
RE: November 2, 2011

The Missouri S&T Campus Curricula Committee recommends to the Faculty Senate that the curriculum changes and degree proposals on the following DC forms be approved.

Approved DC forms:

DC 0392, Aerospace Engineering, Bachelor of Science, approved effective Fall 2012. A proposal to remove the requirement of taking the FE exam and replacing it with the Aerospace Engineering exit exam.

DC 0396, Biological Sciences, M.S., Applied and Environmental Biology, non-thesis option, approved effective Fall 2012. A proposal to modify the requirements for the M.S. in Applied and Environmental Biology, non-thesis option by removing Bio Sci 475.

DC 0398, Psychology, Minor in Psychology, approved effective Fall 2012. A proposal to modify the current curriculum for any of the minors in Psychology.

DC 0399, Psychology, BS and Secondary Education Emphasis area and BA and Secondary Education Emphasis area, approved effective Fall 2012. A proposal to modify the current curriculum for the above degrees and emphasis areas by removing Psychology 312, 356, and 376.

DC 0400, Business & Information Technology, Minor in IST, approved effective Fall 2012. A proposal to modify the current curriculum for the IST minor.

The Missouri S&T Campus Curricula Committee recommends to the Faculty Senate that the course changes on the following CC forms be approved.

Approved CC forms:

CC 8180, Political Science 235, Theories and Issues of Political Science. The following changes are approved effective Fall 2012.

Course Number – Proposed: Political Science 50

Course Title – Proposed: Introduction to Political Science

Prerequisites – Present: Pol Sci 90 or Hist 175 or 176

Proposed: None

CC 8181, Psychology 312, Practicum in Human Services Psychology. Course deletion approved effective Fall 2012.

CC 8182, Psychology 356, Behavior Modification. Course deletion approved effective Fall 2012.

CC 8183, Psychology 376, Sports and Exercise Psychology. Course deletion approved effective Fall 2012.

CC 8190, Business 401, Special Topics. New course approved effective Spring 2012.
Course Description: This is designed to give the department an opportunity to test a new course. Variable Title.

Credit Hours: 0-6

Prerequisites: None

For the information of the Faculty Senate, 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 2365, Chemistry 401, Organometallic Chemistry, approved effective Spring 2012.

Course Description: This course will cover the use of transition metal in organic synthesis with particular emphasis placed on issues of selectivity (regioselectivity and stereoselectivity).

Credit Hours: 3 hour lecture

Prerequisites: Chem 331

EC 2370, Biological Sciences 401, Advanced Nanotechnology in Biomedicine, approved effective Fall 2012.

Course Description: Applications of nanotechnology in life science is termed nanobiotechnology. This course describes recent development of nanotechnology in basic biological research as well as biomedical applications. In addition to attending regular lectures, graduate students will be assigned to an independent research project and present the information in the class.

Credit Hours: 2 hour lecture

Prerequisites: Chem 361 or any 300 level or higher biochemistry course

EC 2371, Biological Sciences 301, Nanotechnology in Biomedicine, approved effective Fall 2012.

Course Description: Nanotechnology has changed human economy and society in many aspects. Applications of nanotechnology in life science is termed nanobiotechnology. This course describes recent development of nanotechnology in fundamental biological research as well as biomedical applications.

Credit Hours: 2 hour lecture

Prerequisites: One biology course at college level and sophomore or higher standing

EC 2372, Computer Science 401, Network Information Analysis, approved effective Spring 2012.

Course Description: This course covers modeling techniques and analytical methods to study the interaction of information and networks. The two main focuses are (1) models and properties of network structures; (2) diffusion of information over networks. The expected outcomes are systematic inference of information encoded in network structures, and effective methods to disseminate or gather information from networks.

Credit Hours: 3 hour lecture

Prerequisites: CS 325 and CS 365

EC 2374, Marketing 301, Consumer Behavior, approved effective Spring 2012.

Course Description: Introduces and applies important concepts, principles, and theories to understand consumer decision making processes in the purchase, usage and disposal of goods and services. Examines the influence of cultural, social, and psychological factors on consumer behavior.

Credit Hours: 3 hour lecture

Prerequisites: Mkt 311

EC 2375, Computer Science, Introduction to Computational Perception and Cognition, effective Spring 2012.

Course Description: This course introduces foundational theories and analysis methods in computational visual perception and cognition. Topics will include image formation, camera model and geometry, description of visual features, shape analysis, stereo reconstruction, motion and video processing, and visual object recognition.

Credit Hours: 3 hour lecture

Prerequisites: Cmp Sc 253; Math 203 or 208

EC 2376, Political Science 301, Middle East Politics, approved effective Fall 2012.

Course Description: Middle East Politics is a comprehensive study of the political systems, institutions, regimes, and ideological belief of the countries of the Middle East. Diplomacy, nationalism, economic systems, and terrorism will be covered.

Credit Hours: 3 hour lecture

Prerequisites: Political Science 90

EC 2378, Art 201, Chinese Brush Painting and Calligraphy, approved effective Spring 2012.

Course Description: Chinese brush painting uses expressive strokes to portray the essence of a given subject while simultaneously revealing the spirit of the artist. Open to students of all levels, this course explores the concepts, history, and techniques related to this artistic medium.

Credit Hours: 1 hour lecture, 2 hour lab

Prerequisites: None

Daniel Tauritz, Chair
Missouri S&T Campus Curricula Committee