

Memo To: Faculty Senate  
From: Missouri S&T Campus Curriculum Committee Meeting  
RE: October 5, 2010 meeting

**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 0369, Economics, Bachelor of Science, approved effective Fall 2011. A proposal to modify the current curriculum for the Bachelor of Science in Economics.

DC 0370, Biological Science, Bachelor of Science, approved effective Fall 2011. A proposal to modify the current curriculum for the Bachelor of Science in Biological Sciences.

**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 8017, Finance 490, Research. The following changes are approved effective Spring 2011.

Catalog Description – Present: The research project will involve students applying research techniques and discipline specific knowledge working on a project designed by the advisor, often working with a business organization. Requires major report and formal presentation to sponsoring organization.

Proposed: Research investigation of an advanced nature leading to a major report suitable for publication in a journal or in a conference proceedings.

Credit Hours – Present: 0-15

Proposed: 0-9

CC 8036, History 331, Nazism & Holocaust. New course approved effective Spring 2011.

Catalog Description: This course focuses on the rise of Nazism and its consequences for politics, society, and culture in Europe. The period's history will be examined from the perspective of perpetrators, victims, and bystanders with emphasis on the Holocaust and its legacy.

Credit Hours: 3 hour lecture

Prerequisites: Hist 112

CC 8058, Economics 355, Statistical Models in Actuarial Science. The following change is approved effective Spring 2011.

Course Number – Proposed: 360

CC 8060, Geological Engineering 207, Geology and Engineering of Ancient and Modern Peru. New course approved effective Spring 2011.

Catalog Description: A study of the geological engineering of the Cuzco-Machu Picchu corridor, including the inter-relations of geology, climate, archeology, and history. A technical report and a week-long field trip to Peru during spring Break are required.

Credit Hours: 1 hour lecture

Prerequisites: None

CC 8061, Biological Sciences 470, Advanced Toxicology. New course approved effective Spring 2011.

Catalog Description: We will discuss the toxicity and mechanisms of action of natural and man-made toxicants. The impact of toxicants on both human health and the environment will be considered. Students will be assigned to independent literature search and write a report.

Credit Hours: 3 hour lecture

Prerequisites: Bio Sci 211 and Bio Sci 231

CC 8063, Chemical Engineering 446, Molecular Modeling and Simulation. New course approved effective Spring 2011.

Catalog Description: Study of molecular-based modeling and simulation methodologies and their connections with each other and to multiscale modeling and other engineering approaches. Molecular Dynamics, Monte Carlo, Brownian Dynamics, statistical mechanics, and application cases in engineering and science are included.

Credit Hours: 3 hours lecture

Prerequisites: Ch Engr 445

CC 8064, Aerospace Engineering 180, Introduction to Aerospace Design. The following change is approved effective Spring 2011.

Credit Hours – Present: 2 hour lab

Proposed: 1 hour lecture, 1 hour lab, Total: 2

**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 2282, Biological Sciences 201, Issues in Public Health, approved effective Spring 2011.

Course Description: Due to globalization, diseases such as West Nile Disease, Ebola Hemorrhagic Fever, and SARS are able to overcome geographic barriers and become widespread. We will discuss the nature of these diseases and their impact on public health, national security, and the global economy.

Credit Hours: 2 hour lecture

Prerequisites: Bio Sci 110 or Bio Sci 111

CC 2283, Geological Engineering 401, Civil Engineering 401, Inca Civilization Geotechnical Engineering Practices, approved effective Spring 2011.

Course Description: 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.

Credit Hours: 3 hour lecture

Prerequisites: GE 50 or CE 215 or equivalent; Graduate Standing

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J. Keith Nisbett, Chair  
Missouri S&T Campus Curricula Committee