Approved New Course Requests

A644 **ALEC 603 Agricultural Leadership, Education, and Communications (3-0) Credit 3.** Theory and practice in facilitating learning from experiences in formal, informal, and non-formal settings; experiential learning in classroom/laboratory settings, guided inquiry, internships/externships, service learning, project-based learning, and outdoor/adventure learning. Prerequisite(s): Graduate classification or approval of department head.

A645 **ALEC 609 Learning Organizations (3-0) Credit 3.** Theory of instruction to support education in social systems language and archetypes; systems thinking theory including mental models; mastery, team learning, concept models of human organizations. Prerequisite(s): ALED 340; Graduate classification.

A640 **BIOL 652 Epigenetic Mechanisms (3-0) Credit 3.** Lectures and discussion of current research in epigenetic inheritance and its mechanisms in a variety of organisms. Structure of the course includes paper discussion and presentation, grant-writing, and grant-review. Prerequisite(s): Biochemical Genetics (BICH 631).

A641 **BUSH 603 American Diplomacy (3-0) Credit 3.** Explores cases in American foreign policy between 1975-2005 related to central and eastern Europe and the former Soviet Union. Examines the responses of American foreign policy practitioners to the unraveling of the U.S. - Soviet detente, the collapse of communism in central Europe and the former Soviet Union and the post-communist transitional period. Prerequisite(s): Graduate classification.

A642 **BUSH 604 Politics of the Contemporary Middle East (3-0) Credit 3.** Learn factors influencing the political course of the middle east, what makes the region seemingly "impervious" to worldwide trends, topics include regime types, influential political trends, the role of kinship, religion and tribe in opposition and regime politics, regional oil economy, democratic liberalization, growth of civil society. Prerequisite(s): Graduate classification.

A649 **CPSC 622 Generic Programming (3-0) Credit 3.** The generic programming approach to design and systematic classification of software components, techniques for achieving correctness, efficiency, and generality of algorithms, data structures, and memory management, methods of structuring a library of generic software components for maximum usability are practiced in a significant design and implementation project. Prerequisite(s): CPSC 211.

A652 **ELEN 629 Nanotechnology Fabrication (3-0) Credit 3.** Cutting edge nanostructure fabrication techniques for both top-down and bottom up approaches. Prerequisite(s): Instructor approval.

A643 **GEOL 645 Geochronology (3-0) Credit 3.** Earth's 4.5 billion-year history is divided into units of geologic time based on the observed changes in the rock record: the timing of those changes is quantified by numerical dating methods: this course examines both dating methods and physical and biological changes observed in the rock record. Prerequisite(s): Graduate classification or approval of instructor.
A651 HORT 610 Physiological and Molecular Basis for Plant Stress Response (3-0) Credit 3. Provide the student with tools to understand the molecular and physiological consequences caused by environmental factors (abiotic and biotic) on plant growth and development and the mechanisms of stress adaptation to stress. Prerequisite(s): MEPS 313 or equivalent.

A646 MARB 606 Advanced Concepts in Marine Population Biology (3-0) Credit 3. Lectures examine novel approaches and concepts employed studying factors affecting recruitment, determining trophic relationships (e.g., stable isotopes), and the consequences, at various levels, of changes in abundance of marine populations, including ecological (community), population (Allee effects) and genetic (effective populations size.) Inference of population connectivity determined through the use of electronic tags and molecular techniques is also examined. Prerequisite(s): B.S. Marine Biology or Marine Science or instructor approval.

A650 MEPS 610 Physiological and Molecular Basis for Plant Stress Response (3-0) Credit 3. Provide the student with tools to understand the molecular and physiological consequences caused by environmental factors (abiotic and biotic) on plant growth and development and the mechanisms of stress adaptation to stress. Prerequisite(s): MEPS 313 or equivalent.

A648 OCNG 684 Professional Internship (3-0) Credit 3. A directed internship in a professional setting to provide on-the-job training in ocean observing systems skills appropriate to the student’s professional objectives. Prerequisite(s): Approval of student’s committee chair; OCNG 684, OCNG 657.