

**Graduate Council Report  
February 6, 2014**

**New Course Requests**

**CPSY 601.** Multicultural Counseling in Schools. (3-0). Credit 3. Intersecting role of ethnicity, cultural background, gender and sexual orientation and how they shape the psychosocial development of children and adolescents and impact their educational trajectories; development and appreciation of cultural and ethnic differences among individuals, groups, and families to enhance school counseling service delivery. Prerequisite(s): Graduate Classification; Approval of department head.

**CPSY 602.** School Counseling Theories and Techniques. (3-0). Credit 3. Broad view of counseling theories and techniques using a microskills approach; modules will include topics pertinent to the school counseling field; opportunities to observe and practice counseling techniques. Prerequisite(s): Graduate Classification; Approval of Department head.

**CPSY 603.** School Counseling Group Interventions. (3-0). Credit 3. Development of group counseling interventions for children and adolescents in school settings. Prerequisite(s): Graduate Classification; Approval of department head.

**MARB 618.** Marine Science of the Pacific Rim. (3-0). Credit 3. Course intended for students interested in conducting research on the marine biology or fisheries of the Pacific Rim countries; tailored to specific interests of individual students; course involves directed readings, participation in the student's research project, discussions with the instructor, and final report for possible publication. Prerequisite(s): Graduate standing and permission from the instructor.

**SYEN 640.** Systems Thinking and Analysis. (3-0). Credit 3. Introduction to the systems thinking process and the fundamental considerations associated with the engineering of large-scale systems or system of systems. Prerequisite(s): Graduate classification; Math 304 or approval of instructor.

**SYEN 642.** Systems Performance Modeling. (3-0). Credit 3. Develop and formulate models to evaluate and improve system performance; Survey of Math Programming; decision trees; simulation models; and economic evaluation of systems. Examples and applications of linear programming, nonlinear programming, integer programming, systems simulation, multi-objective formulations, solution interpretation and sensitivity analysis. Prerequisite(s): None.

**SYEN 643.** Theory of Socio-Technical Systems. (3-0). Credit 3. Philosophy, origins, theory, principles, and methodologies of complex socio-technical systems; emphasis on holistic thinking for systems engineering. Systems approach; cybernetics; complexity science; physical and biological systems; social, economic, and political systems; network representations of systems; real-world decision-making; system dynamics; emergent behavior; systems architecture; engineered systems today and in the future. Prerequisite(s): Graduate Classification.

**SYEN 644.** Decision Making Under Uncertainty in Systems Engineering. (3-0). Credit 3. Formulating models and making engineering decisions about systems and systems of systems operating under

uncertainty. Review of probabilistic modeling and statistical analysis. Risk analysis and assessment for complex stochastic systems: Mathematical decision theory: Heuristic decision methods, Value-driven decision making, sequential decision problems, real options theory and deferred decision making. Prerequisite(s): Graduate Classification.

**SYEN 645.** Management of Engineering Systems. (3-0). Credit 3. Theory and practice of leadership and management in engineering organizations; focus is both “hard” skills (systems engineering process, project management, planning, forecasting, financial analysis) and “soft” skills (leadership styles, motivation, teamwork, managing creative people, navigating informal networks); science and technology policy; economic implications of engineering and technology. Prerequisite(s): Graduate classification.

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**Course Change Request**

**ESSM 601: Ecosystem Stewardship**

**PREREQUISITE(S):**

Change in course number, contact hours (lab & lecture), and semester credit hours.

**COURSE TITLE AND CATALOG DESCRIPTION:**

**FROM:** Ecosystem Stewardship. (2-0). Credit 2. Integrates ecological concepts of resilience, sustainability, transformation and vulnerability within a framework of ecosystem stewardship to support human wellbeing in a rapidly changing world; emphasizes social-ecological systems. Adaptive management, and valuation of ecosystem services as mechanisms to strengthen management and policy recommendations supporting ecosystem stewardship. Prerequisite(s): Graduate Classification.

**TO:** Ecosystem Stewardship. (3-0). Credit 3. Integrates ecological concepts of resilience, sustainability, transformation and vulnerability within a framework of ecosystem stewardship to support human wellbeing in a rapidly changing world; emphasizes social-ecological systems. Adaptive management, and valuation of ecosystem services as mechanisms to strengthen management and policy recommendations supporting ecosystem stewardship. Prerequisite(s): Graduate Classification.

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**Curriculum Change Request**

**Graduate Certificate in Applied Behavior Analysis**

**DESCRIPTION OF CHANGE:**

SPED 602: Ethics and Professional Conduct in Special Education and Applied Behavioral Analysis will become a required course in order to be awarded this certificate. This will increase the certificate from 15 credits to 18 credits.

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**Special Consideration Item**

Proposal for Ph.D. in Oral Biology