

**Graduate Council Report
May 20, 2015**

New Course Requests:

ACCT 625. Professional Accounting Seminar. (1-0). Credit 1. Focuses on increasing understanding of the emerging issues facing professional accountants; provides opportunities to enhance skills necessary to succeed as professional accountants. Prerequisite(s): Master of Science in Accounting Program students only.

EEBL 601. Physiological Ecology. (1-0). Credit 1. Examination of how physiological systems respond, over different timescales, to variation in physical and biological environments; understanding how the interaction of organism and environment determines characteristics relevant to ecology; understanding the effect of individual characteristic on population and interspecific dynamics. Prerequisite(s): Graduate classification.

EEBL 602. Population Ecology. (1-0). Credit 1. Fundamental concepts in population dynamics; focus on birth, death, immigration and emigration processes; how processes are affected by internal and external factors and ways they affect population abundance. Prerequisite(s): Graduate classification.

EEBL 603. Community Ecology. (1-0). Credit 1. Fundamental concepts in community ecology; conceptual development of the sub-discipline; spatial and temporal patterns of community structure; processes that determine community structure and dynamics; interface of population, community and ecosystem ecology; applications of community ecology for natural resource management, agriculture and health. Prerequisite(s): Graduate classification.

EEBL 604. Ecosystem Ecology. (1-0). Credit 1. Examination of flow of materials, energy, and information between ecosystems and the geographic structure in which ecosystems are embedded globally; integrative nature of spatial and temporal processes acting across ecosystem units. Prerequisite(s): Graduate classification.

EEBL 605. Population and Quantitative Genetics. (1-0). Credit 1. Basic overview of the fields of population and quantitative genetics; fundamental concepts and their applications in research of natural populations. Prerequisite(s): Graduate classification.

EEBL 606. Phylogenetics and Comparative Biology. (1-0). Credit 1. Examination of phylogenetics and comparative biology. Prerequisite(s): Graduate classification.

EEBL 607. Evolutionary Genomics. (1-0). Credit 1. New techniques for generating large amounts of genetic data, including thousands of single-nucleotide polymorphisms and whole-genome sequence data; transforming the study of evolutionary biology and the interpretation of evolutionary phenomena; includes population genetics, adaptation, phylogenomics and speciation. Prerequisite(s): Graduate classification.

EEBL 608. Integrative Animal Behavior. (1-0). Credit 1. Examination of the contributions of behavior to survival and reproduction; the interaction of evolutionary history and ecological circumstance to shape the expression of behavior; integrative nature of behavior; interaction of evolutionary processes, mechanistic constraints and ecological demands involved in selecting for a set of behavioral strategies. Prerequisite(s): Graduate classification.

Graduate Council Report
May 20, 2015

EEBL 610. First Year Graduate Seminar. (1-0). Credit 1. Attendance and active participation in the weekly dinnertime conversation on PhD and career planning with ecology and evolutionary biology core faculty and others; faculty and colleagues provide feedback on application for fellowship support. Prerequisite(s): Graduate classification.

EEBL 612. Open Source for Open Science Bootcamp. (1-0). Credit 1. Exposure to command line programming in R; principles of data import, vetting, processing, analysis, graphing, and produce export; bootcamp precedes Fall semesters over a three-day period. Prerequisite(s): Graduate classification or approval by instructor.

EEBL 681. Seminar. (1-0). Credit 1. Attendance and active participation in the weekly ecology and evolutionary biology colloquium featuring guest speakers invited by students and faculty. Prerequisite(s): Graduate classification.

INTA 637. Field Research Methods. (3-0). Credit 3. Course provides an overview of the major field research methods including field experiments, behavioral games, and household surveys.

INTA 671. The Political Economy of the Middle East. (3-0). Credit 3. Surveys the main themes in political economy of the modern Middle East and North Africa (MENA); examining the economic structures, institutions, and policy challenges in countries in the region.

MEEN 602. Modeling and Analysis of Mechanical Systems. (3-0). Credit 3. State spaces and vector algebra with applications to static, dynamic and controls systems, State evolution, trajectories, ordinary differential equations; global and local balance laws and vector calculus to describe flowing/deforming systems. Steady state and transient PDEs, statics and vibrations of strings and membranes, and the heat equation; Numerical methods. Prerequisite(s): Graduate classification.

MEEN 604. Time Frequency Nonlinear Vibration Control. (3-0). Credit 3. The new course is novel, original, and unique in that it deploys simultaneous vibration and frequency control in real-time to efficiently negate nonlinear dynamic instability. The new course differentiates itself from all available courses on control in that it integrates both basic and advanced topics from several engineering disciplines into the creation of an innovative, new control theory effective in denying bifurcation and chaotic state from emerging. Prerequisite(s): Graduate classification.

PHPM 603. Managing Healthcare Data and Information. (3-0). Credit 3. Course will cover descriptive statistical techniques for the presentation of health care data and applicability of the descriptive statistical techniques, a survey commonly used inferential statistical techniques for data analysis is presented. Prerequisite(s): For Executive MHA students only.

PHPM 604. Population and Public Health for Health Professionals. (3-0). Credit 3. Public health and its concentration areas; examines how the federal, state, and local health care and public health system/infrastructure has evolved. Highlights illustrative public health problems, diseases, and risk factors and the role of public health in preventing/alleviating same; reviews the core functions of public health. Prerequisite(s): For Executive MHA students only.

Graduate Council Report
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SOCI 682. Grant Writing for the Social Sciences. (3-0). Credit 3. This is a course in professional proposal and grant writing. The class will include a discussion of best writing practices, writing and developing competitive grant and fellowship proposals, and peer reviewing and editing. The goal of the class is to produce a well-written, competitive grant or fellowship proposal for submission. Prerequisites(s): Graduate classification or approval of instructor.

Special Consideration Items:

Graduate Faculty Guideline Changes