

**Graduate Council Report
February 5, 2015**

New Course Request:

AGEC 608. Economics of Foreign Intervention, Conflict, and Development. (3-0). Credit 3. Expose students to economic models of conflict and development, socio-political models of conflict; conflict and vulnerable groups; advanced quantitative tools and methods in conflict and development research; interaction between poverty, natural resources and conflict in developing countries; role of multilateral, bilateral, and strategic stakeholders in conflict resolution and economic development.

AGEC 642. Dynamic Optimization in Agricultural and Applied Economics. (3-0). Credit 3. Economics of problems of dynamic optimization, focusing on numerical and analytical methods; applications in a wide range of issues related to agricultural and applied economics are considered. Prerequisite(s): ECON 607 and ECMT 660 or Approval of Instructor

BICH 678. Metal Ions. (1-0). Credit 1. Understanding the roles of metals in biological systems and the methods used in biochemical and cell biological processes; reading primary research literature critically, critiquing research designs in terms of innovation, significance and logic, and uncovering both strengths and weaknesses of the discussed articles. Prerequisite(s): CHEM 628 or approval of instructor.

EPSY 633. Qualitative Research Design and Data Collection. (3-0). Credit 3. Introduction to qualitative designs used to answer educational, psychological, or social research questions; historical foundations, epistemologies, and essential elements of prevalent qualitative research designs; methods of collecting qualitative data including interviews, naturalistic observation, participant-observation, and stimulated recall procedures.

GEOG 634. Hydrology and Environment. (3-0). Credit 3. Examination of hydrologic processes affecting surface and groundwater resources; impact of climate, soils, vegetation, land-use practices, and human effects on hydrologic processes; natural-scientific perspectives emphasized. Prerequisite(s): Graduate classification.

ISEN 665. Management of Engineering Systems. (3-0). Credit 3. Theory and practice of leadership and management in engineering organizations; focus on both "hard" skills (systems engineering process, project management, planning, forecasting, and financial analysis) and "soft" skills (leadership systems, motivation, teamwork, managing creative people, navigating informal networks); science and technology policy, economic implications of engineering and technology. Prerequisite(s): Graduate classification.

ISEN 670. 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; systems dynamics; emergent behavior; systems architecture; engineered systems today and in the future. Prerequisite(s): Graduate classification

NUEN 657. Emergency Response Dose Assessment. (2-0). Credit 2. The US Nuclear Emergency Response program; assessment of radiation doses to the public and emergency responders following an event; Topics include US response teams, radioecology, US guidelines, dose assessment techniques and useful software packages; capstone exercise simulating a radiological release. Prerequisite(s): NUEN 309 or equivalent, and Graduate classification.

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OCNG 655. Experimental Design and Analysis in Oceanography. (3-0). Credit 3. Elements of experimental design on oceanography; logistics of data collection, critical evaluation of field sampling strategies and formulating field studies suitable for hypothesis-based inquires using the standard linear regression mode, the analysis of variance, and principal component analysis. Prerequisite(s): Permission of instructor.

VSCS 697. Teaching Anatomy Lab. (2-12). Credit 4. Theory and practical aspects of teaching anatomy lab, with emphasis on content, instructional methods and practical aspects of anatomy lab. May be repeated for credit. Prerequisite(s): Graduate classification in VIBS/VSCS; Appointment as a TA for VIBS 913 anatomy

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Course Change Request:

HPCH 670: Seminar in History and Context of Public Health

From: S/U

To: Grade

HPCH 671: Seminar in Public Health Theory

From: S/U

To: Grade

HPCH 672: Seminar in Public Health Interventions

From: S/U

To: Grade

HPCH 673: Seminar in Public Health Evaluation

From: S/U

To: Grade

HPCH 674: Seminar in Social and Behavior Health

From: S/U

To: Grade

HPCH 685: Directed Study

From: S/U

To: Grade

HPCH 686: Directed Research

From: S/U

To: Grade

HPCH 689: Special Topics- Health Promotion & Community Health Science

From: S/U

To: Grade

PHEB 685: Directed Study

From: S/U

To: Grade

PHEB 686: Directed Research

From: S/U

To: Grade

PHEB 689: Special Topics- Epidemiology and Biostatistics

From: S/U

To: Grade

PHEO 685: Directed Study

From: S/U

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To: Grade

PHEO 686: Directed Research

From: S/U

To: Grade

PHEO 689: Special Topics- Environmental and Occupational Health

From: S/U

To: Grade

PHPM 685: Directed Study

From: S/U

To: Grade

PHPM 686: Directed Research

From: S/U

To: Grade

PHPM 689: Special Topics- Health Policy and Management

From: S/U

To: Grade

WMHS 601: Applications and Problems in Hydrological Sciences

COURSE TITLE AND CATALOG DESCRIPTION:

FROM: Applications and Problems in Hydrological Sciences. (3-0). Credit 3. Integration and application of biophysical hydrologic processes affecting surface and groundwater resources; problem/resolution format; applications of experience through problem identification, data collection, analysis and identification of solutions and alternatives. Prerequisite(s): Approval of instructor.

TO: Hydrology and Environment. (3-0). Credit 3. Examination of hydrologic processes affecting surface hydrologic processes; natural-scientific perspectives emphasized; Cross-listed with GEOG 634. Prerequisite(s): Graduate classification.