

**Graduate Council Report
October 6, 2011**

New Course Requests:

ANSC 621. Issues in the Equine Industry. (3-0). Credit 3. Integration of cumulative knowledge acquired in the equine science curriculum to demonstrate critical thinking and communication skills to address critical issues in the equine industry. Prerequisite(s): Approval of instructor or enrollment in Master of Equine Industry Management Program. Stacked with ANSC 423.

CHEM 640. Laboratory Methods in Biological Chemistry. (1-6) Credit 3. Chemical biology is an ever-expanding scientific field that involves the application of chemical techniques to the investigation and/or manipulation of biological systems. This laboratory will provide students with a hands-on opportunity to gain an understanding and appreciation for chemical biology techniques. Prerequisite(s): Graduate standing or approval of instructor.

CHEM 644. Natural Products Biosynthesis. (3-0). Credit 3. This course will present a survey of the chemical reactions occurring in living systems, describe the experimental methods used to study these reactions and examine the biosynthesis of the major families of natural products, with an emphasis on the mechanistic chemistry of the biosynthetic pathway. Prerequisite(s): Graduate standing or approval of instructor.

CVEN 765. Advanced Civil Engineering Systems. (3-0). Credit 3. Formulation of decision making problems at different hierarchical levels: strategic, planning and operational; includes application problems in project selection, networks, allocation, routing/scheduling, distribution, and multi-objective; introduction to exact and approximate solving techniques: optimization, heuristics, simulation, and decision analysis; solution interpretation and sensitivity analyses. Prerequisite(s): CVEN 322 or equivalent.

FINC 649. Financial Modeling. (3-0). Credit 3. Computer-based modeling of contemporary problems in investments and corporate finance including asset pricing, portfolio optimization, valuation, capital budgeting, cost of capital, risk assessment, and option pricing; using models to evaluate financial decision variables and alternative investment strategies. Prerequisite(s): Graduate classification; classification 6 students may not enroll in this course; FINC 421 or FINC 632; FINC 434 or FINC 629.

FINC 660. Fixed Income Analysis. (3-0). Credit 3. Characteristics of fixed income securities including Treasury issues, federal agency issues, corporate and municipal bonds, mortgage-backed and asset-backed securities; institutional features fixed income markets; risks of bond investing; fixed income valuation; term structure; trade strategies, modeling and assessing credit risks; hedging with fixed income derivatives. Prerequisite(s): Graduate classification, classification 6 students may not enroll in this course; FINC 421 or FINC 632; FINC 434 or FINC 629.

PETE 656. Advanced Numerical Methods for Reservoir Simulation. (3-0). Credit 3. Numerical simulation of flow in porous media based on numerical methods for partial differential equations; supplemented by published papers and research topics; development of a reservoir simulator. Prerequisite(s): Graduate classification; Basic Reservoir Simulation or equivalent class; Linear Algebra and Matrix Computations or equivalent class; Advanced Calculus or equivalent class; Programming experience.

SCSC 644. Forage Ecology and Management. (3-0). Credit 3. Investigation of multidisciplinary approaches toward the development of integrated forage, livestock, and wildlife production systems that are economically feasible and environmentally sustainable. Prerequisite(s): Approval of instructor and graduate classification. Stacked with 444.

VIBS 620. Cytogenetics. (3-0). Credit 3. Examination and analysis of variation in chromosome structure, behavior and number, developmental and evolutionary effects of this variation. Prerequisite(s): GENE 603. Cross-listed with GENE 620.

VLCS 622. Equine Disease & Epidemiology. (3-0). Credit 3. Principles and methods of epidemiology applied to equine health and prevention and control of selected equine infectious diseases. Prerequisite(s): Enrollment in Equine Certificate and Graduate Student Classification, or Approval of Instructor. Stacked with VLCS 422.

Graduate Council Report

October 6, 2011

Course Change Requests:

CPSY 626. Psychopathology

Prerequisite:

Remove Prerequisite: Cross-listing with PSYC 626 – Psychopathology

CVEN 606. Environmental Engineering Design I.

Title:

FROM: Environmental Engineering Design I.

TO: Environmental Engineering Design.

Course Hours:

FROM: (1-6). Credit 3.

TO: (3-0). Credit 3.

ESSM 685. Directed Studies

Course Credits:

FROM: Credit 1 to 4 each semester (4-0). Credit 4

TO: Credit 1 to 9 each semester (9-0). Credit 9

FINC 664. Portfolio Management

Prerequisite:

FROM: Graduate classification; classification 6 students may not enroll in this course; FINC 629 and FINC 632

TO: Graduate classification; classification 6 students may not enroll in this course; FINC 421 or FINC 632; FINC 434 or FINC 629

Title:

FROM: Portfolio Management

TO: Active Portfolio Management

FINC 664. Portfolio Management (continued)

Description:

FROM: Overview of the investment industry and the portfolio management process; includes portfolio structuring, stock vs. sector selection, performance measurement, and attribution analysis; investment products and distribution channels, legal and governance issues, operations, product development and marketing.

TO: Analysis of investment tactics designed to earn abnormal returns; identification and evaluation of active strategies that exploit capital market anomalies and market inefficiencies; portfolio structuring, stock and sector selection, performance measurement, attribution analysis and benchmarks in inefficient markets.

SCSC 657. Environmental Soil Science

Prerequisite: Stacked with SCSC 455.

Description:

FROM: Environmental aspects of soil receiving organic and inorganic materials involved with crop production and from wastes associated with agriculture, industry and municipalities; soil properties largely determine environmentally sound practices of applying these materials and the quantities that may be added without polluting air, soil and water resources.

TO: Discussion of physical, chemical, and biological properties of soil and water and the impact on productivity and sustainability of various ecosystems; application of the knowledge of properties and soil processes to develop and evaluate strategies for protecting and/or improving soil and water quality.

Title:

FROM: Environmental Soil Science

TO: Environmental Soil and Water Science

Graduate Council Report
October 6, 2011

Special Consideration Item:

Graduate Council members approved the College of Engineering proposed changes for the Qatar Campus Engineering Graduate Faculty to Graduate Faculty Membership.

Graduate Council Report
October 6, 2011

Special Consideration Item:

Graduate Council approved the College of Agriculture and Life Sciences proposed Master of Equine Industry Management.

Graduate Council Report
October 6, 2011

Special Consideration Item:

Graduate Council approved the College of Agriculture and Life Sciences proposed Master of Recreation Resources Development – Distance.

Graduate Council Report
October 6, 2011

Special Consideration Item:

Graduate Council approved the College of Agriculture and Life Sciences proposed Master of Science in Plant Breeding – Distance.

Graduate Council Report
October 6, 2011

Special Consideration Item:

Graduate Council approved the College of Agriculture and Life Sciences proposed PhD in Plant Breeding – Distance.