

Graduate Council Report

December 1, 2011

New Course Requests:

ARCH 669. Foundations of Research in Architecture. (3-0). Credit 3. Introduction to the research process and its application to problems in architecture; survey of current literature on research design methods relevant to diverse architectural problems; qualitative and quantitative research strategies and techniques; communicating research results. Prerequisite(s): Graduate classification; concurrent enrollment in ARCH 681 and 690.

EDCI 632. Program Evaluation in Curriculum and Instruction. (3-0). Credit 3. Program evaluation, investigating its purposes and procedures, with attention to settings, personnel, and performance; review of standards, principal theories, and models; study of histories, political contexts, ethics, and the nature of evidence. Prerequisite(s): Graduate classification.

GEOL 653. Geobiological Research. (1-6). Credit 3. Team based research in modern or historical geobiology; definition of questions and hypothesis testing; analytical techniques; project lifecycle; reporting of results. Prerequisite(s): Approval of instructor.

HORT 626. International Floriculture Marketing. (2-2). Credit 3. Importance, cost, and opportunities in marketing floral products, fresh cut flowers, flowering potted plants, foliage plants, and bedding/garden plants; topics include: world production areas, economic value, species grown, marketing channels, retail environments, current/future consumers, postharvest handling, promotion/advertising, perceived/added value, marketing trends and employment opportunities. Prerequisite(s): Graduate classification. Stacked with HORT 426.

MARB 604. Behavioral Ecology of Marine Mammals and Seabirds of New Zealand. (3-3). Credit 4. Ecology and behavior of marine birds and mammals of the South Island, New Zealand; literature comparisons of marine vertebrates; emphasis is on animals in nature; laboratory experience of the animals from boats, shore, readings, videos, interpretation, and peer-review scientific papers and books. Prerequisite(s): Graduate standing and permission from instructor. Stacked with MARB 404.

SCSC 629. Laboratory Quality Systems. (3-0). Credit 3. Quality systems and method development used within a laboratory; ensuring the integrity of procedures used in lab processes, chain of custody, information management, and international laboratory standards; regulatory requirements for laboratory operation; bio-security precautions; laboratory management. Cross-listed with VTMI 629.

SCSC 634. Regulatory Science: Principles & Practices in Food Systems. (3-0). Credit 3. Regulatory tools, standards and approaches in production, processing, and distribution of agricultural goods; development and implementation of regulations; interdependence of federal and state agencies, use of risk analysis.

SCSC 635. Comparative Global Standards in Food Systems. (3-0). Credit 3. Laws, regulations and standards governing the production, distribution, processing, and marketing of food across regions of the world; international standard setting bodies and risk assessment committees; regulatory equivalency and harmonization; product approval procedures; cost/benefits of global standards and trade agreements.

SCSC 636. Regulatory Science Methodology in Food Systems. (3-0). Credit 3. Risk management methodology including investigation of food and feed firms, conducting internal compliance audits; sample collection, chain of custody, trace-back and trace-forward, recalls, label review, data interpretation, risk ranking, resource prioritization, incident command and rapid response. Prerequisite(s): SCSC 634 Regulatory Science: Principles and Practices in Food Systems.

VIBS 611. Tumor Cell Biology and Carcinogenesis. (3-0). Credit 3. Basic principles of tumor biology; role of gene-environment interactions; molecular mechanisms regulating cancer initiation and progression; therapeutic treatment of cancer. Prerequisite(s): BIMS 320 or equivalent; graduate classification. Stacked with VIBS 411.

VIZA 630. Contemporary Art Studio/Seminar I. (2-4). Credit 4. Critical, theoretical, and historical readings on art and artists prompt visual and textual responses; development of personal ideas, methods, and processes; research, writing, discussion, and preliminary studies contribute to a final, in-depth body of work situated within the context of contemporary art. Prerequisite(s): MFA in Visualization status or approval of instructor; graduate classification.

VIZA 631. Contemporary Art Studio/Seminar II. (2-4). Credit 4. Theoretical and critical tools for contemporary digital art practice and technology-based cultural production; project proposal and development; exhibition planning, site selection and installation. Prerequisite(s): MFA in Visualization status or approval of instructor; graduate classification.

VTMI 629. Laboratory Quality Systems. (3-0). Credit 3. Quality systems and method development used within a laboratory; ensuring the integrity of procedures used in lab processes, chain of custody, information management, and international laboratory standards; regulatory requirements for laboratory operation; bio-security precautions; laboratory management. Cross-listed SCSC 629.

WFSC 643. Geospatial Technology in Military Land Management. (3-0). Credit 3. Tools for visualizing, creating, managing, and analyzing geographic data on military lands and outside areas critical to mission sustainment; familiarization with ArcMap and ArcCatalog in military-related land management scenarios. Prerequisite(s): Graduate classification or approval of instructor. Previous experience with ArcMap and ArcCatalog is helpful.

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Course Change Requests:

AERO 625. Digital Control of Aerospace Systems

Title:

FROM: Digital Control of Aerospace Systems

TO: Modern Control of Aerospace Systems

Description:

FROM: Analysis and design of discrete and sampled-data controllers unique to aircraft and spacecraft; modeling of aircraft and spacecraft, sources of uncertainties; requirements and specifications; direct digital design using MIMO optimal techniques; sample rate selection, multi-rate controllers; robustness.

TO: Linear and nonlinear controllers for aircraft and spacecraft; state and output feedback of sampled-data control systems; feedback linearization and dynamic inversion; direct sampled-data design using optimal MIMO techniques; sensing considerations, sources and modeling of uncertainties unique to aircraft and spacecraft, robustness analysis.

AGEC 605. Rural Real Estate Appraisal and Organization

Course Hours:

FROM:

(2-2). Credit 3.

TO:

(3-0). Credit 3.

ARCH 601. Design Fundamentals I

Prerequisite(s):

FROM:

Graduate classification; career change program

TO:

Graduate classification in Architecture or approval of instructor; career change program, ARCH 600 and concurrent enrollment in ARCH 610

ARCH 610. Visual Communications

Prerequisite(s):

FROM: Graduate classification

TO: Graduate classification or approval of instructor; and concurrent enrollment in ARCH 601

ARCH 619. Applied Solar Energy

Prerequisite(s):

FROM: ARCH 333, 334 or 615 or approval of instructor

TO: Graduate classification or approval of instructor; ARCH 335 or 615 or equivalents

ARCH 621. Energy Optimization in Building Design

Prerequisite(s):

FROM:

ARCH 633; CSCE 203 or equivalent

TO:

Graduate classification or approval of instructor; ARCH 633 or 615 or equivalents

Description:

FROM: Optimum energy use strategies for buildings, energy audit methods, life-cycle cost analysis of building energy systems, solar system applications, building system optimization by computer simulation techniques; case studies in passive energy and solar applications.

TO: Optimum energy use strategies for commercial buildings, hourly energy simulation methods, building envelope and HVAC system energy optimization by computer simulation techniques; life-cycle cost analysis of building energy systems; case studies in commercial building applications.

ARCH 625. Sustainable Housing Design

Prerequisite(s):

FROM:

ENDS 233; ARCH 334

TO:

Graduate classification or approval of instructor; ARCH 335 or equivalent

ARCH 631. Architectural Structures III

Prerequisite(s):

FROM: ARCH 431 or approval of instructor

TO: Graduate classification or approval of instructor

ARCH 633. Environmental Systems III

Prerequisite(s):

FROM: ARCH 334

TO: Graduate classification or approval of instructor; ARCH 335 or 615 or equivalents

ARCH 634. Architectural Lighting

Prerequisite(s):

FROM:

ARCH 449 or equivalent

TO:

Graduate classification or approval of instructor; ARCH 335 or equivalent

ARCH 647. Recording Historic Buildings

Prerequisite(s):

FROM: Graduate classification; appropriate background in architectural drawing; approval of instructor

TO: Graduate classification or approval of instructor

GENE 643.**Title:****FROM:** Quantitative Genetics and Plant Breeding**TO:** Molecular Quantitative Genetics and Plant Breeding**Description:**

FROM: Applied aspects of quantitative genetics in plant breeding; examination of methodologies to analyze quantitative variation in crop species; genetic phenomena (inbreeding, heterosis and epistasis); quantitative trait loci (QTL) mapping and marker-assisted selection (MAS); genotype by environment interaction, heritability multiple traits and selection theory with implications in plant breeding.

TO: Classical, applied and molecular aspects of quantitative genetics in plant breeding; genetic relationships; genetic diversity; genetic phenomena (linkage, heterosis and epistasis); genotype by environment interaction; mapping quantitative trait loci (QTL); genomic and marker-assisted selection; application of statistical software.

Prerequisite(s):**FROM:** SCSC 641, GENE 613, STAT 619 and 652**TO:** STAT 651, SCSC 642 or GENE 613 or approval of instructor**Cross-List with:** SCSC 643**SCSC 643. Quantitative Genetics and Plant Breeding****Title:****FROM:** Quantitative Genetics and Plant Breeding**TO:** Molecular Quantitative Genetics and Plant Breeding**Description:**

FROM: Applied aspects of quantitative genetics in plant breeding; examination of methodologies to analyze quantitative variation in crop species; genetic phenomena (inbreeding, heterosis and epistasis); quantitative trait loci (QTL) mapping and marker-assisted selection (MAS); genotype by environment interaction, heritability multiple traits and selection theory with implications in plant breeding.

TO: Classical, applied and molecular aspects of quantitative genetics in plant breeding; genetic relationships; genetic diversity; genetic phenomena (linkage, heterosis and epistasis); genotype by environment interaction; mapping quantitative trait loci (QTL); genomic and marker-assisted selection; application of statistical software.

Prerequisite(s):

FROM: SCSC 641; GENE 613; STAT 619 and 652

TO: STAT 651, SCSC 642 or GENE 613; or approval of instructor

Cross-List with: GENE 643

Graduate Council Report

December 1, 2011

Course Withdrawals:

ARCH 677. Neuroscience and Architecture

FLOR 691. Research

FLOR 693. Professional Study

Graduate Council Report

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Special Consideration Item:

Graduate Council approved the College of Architecture, Landscape Architecture and Urban Planning proposal for a 4+2 Program for BLA + MUP: Bachelors of Landscape Architecture + Masters of Urban Planning.

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Graduate Council approved the College of Architecture, Landscape Architecture and Urban Planning proposal for a 4+2 Program for BLA + MSLD: Bachelors of Landscape Architecture + Masters of Science in Land Development.

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Special Consideration Item:

Graduate Council approved the College of Liberal Arts, Film Studies Program proposal for a Graduate Certificate in Film and Media Studies.

Graduate Council Report

December 1, 2011

Special Consideration Item:

Graduate Council approved the College of Agriculture and Life Sciences, Department of Soil and Crop Sciences proposal for a Graduate Certificate in Regulatory Science in Food Systems.