

Graduate Council Report

June 7, 2012

New Course Requests

BICH 661. Advanced Genome Annotation with Ontologies. (2-0). Credit 2. Advanced topics in functional annotation using ontologies; usage issues and quality control for ontologies and annotations; mentoring annotation activities from BICH 460 and evaluation of annotations. Prerequisite(s): Graduate classification or approval of instructor.

BIOL 625. Structural and Molecular Biology. (3-0). Credit 3. The objective of this course is for students to successfully integrate structural knowledge into their own areas of interest. Literature examples will be used to integrate structural information from large macromolecular complexes to single proteins with functional information obtained through other methods Prerequisite(s): Graduate Classification or permission of instructor.

EDCI 606. Cognition, Culture and Literacies. (3-0). Credit 3. Exploration of complex interrelationships among cognition, culture, and literacies and their implications for education. Prerequisite(s): Graduate classification.

HISP 605. Spanish for Reading and Translation. (3-0). Credit 3. Lexical and grammatical study and practice for the acquisition of research-practical reading and translation competence in Spanish; for graduate students needing foreign language reading competence; taught in English. Prerequisite(s): Graduate classification.

MARA 684. Maritime Administration. Credit 1-4. Professional Internship. Credit 1-4. On the job training in the field of maritime administration and logistics. Prerequisite(s): Graduate standing; approval of department head.

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Email Vote

Course Change Requests

AERO 631: Model Predictive Control for Aerospace Systems

Prerequisite(s):

FROM: Graduate classification and approval of instructor

TO: Graduate classification, AERO 623 or comparable course

Title:

FROM: Advanced Trajectory Optimization for Aerospace Systems

TO: Model Predictive Control for Aerospace Systems

Course Description:

FROM: Numerical solution of optimal control problems (OCP) as a nonlinear programming problem (NLP); control of a nonlinear missile using SNOPT, a trajectory generation, motion planning, atmospheric entry problems; elements of approximation, distributed and parallel computation techniques, dynamical systems, stability theory, parameter optimization.

TO: nonlinear optimal control and optimization, optimal control theory, dynamical systems stability and control, approximation theory, convex optimization; control of engineering systems with state and control constraints with parametric uncertainty; formulate optimal control problems, solve as nonlinear programming problems using available solvers; requires background in control theory.

BAEN 665: Design of Biological Waste Treatment Systems

Course Description:

FROM: Management and treatment of organic wastes, with emphasis on human, agricultural and food processing wastes; engineering design of biological waste treatment processes; regulatory aspects affecting management of organic waste.

TO: Management and treatment of high organic content waste streams, with emphasis on agricultural, municipal, and agro-industry wastewater; engineering design of biological waste treatment processes; resource recovery from waste streams; recycle and reuse of finished effluents.

CVEN 684: Professional Internship

Prerequisite(s):

FROM: Approval of the department head and one semester of graduate work completed.

TO: Approval of the department head and two semesters of graduate work completed.

Course Description:

FROM: Training under the supervision of practicing professional engineers in settings appropriate to the student's professional objectives, away from Texas A&M campus.

TO: Professional Internship Credit 1 to 2

Credit Hours:

FROM: 3-0

TO: 2-0

ECEN 687 VLSI: Physical Design Automation

Prerequisite(s):

FROM: ECEN 248, CSCE 311

TO: ECEN 248

Course Title:

FROM: VLSI Physical Design Automation

TO: Introduction to VLSI Design Automation

Course Description:

FROM:

The course is on algorithms for VLSI physical design automation, which include partitioning, floor planning, placement, and routing. Technical papers on the above topics will be chosen from premier CAD, conference proceedings, journals and presented in class.

TO:

Introduction to algorithms and techniques for VLSI design automation, including basic optimization techniques, high level synthesis, logic synthesis/verification, physical design, timing verification and optimization.

ENTO 619: Insect Toxicology

Course Hours:

FROM: 3-3

TO: 3-0

Course Withdrawals

BAEN 610: Spatial Technology for Site-Specific Crop Management

Course no longer being offered.

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Special Consideration Item:

The Department of Engineering Technology and Industrial Distribution would like to request TAMU-Qatar as an additional location to offer Residency Week for the existing Master of Industrial Distribution (MID) degree program.

Special Consideration Item:

The College of Geosciences wishes to withdraw the following graduate courses from their course inventory:

ATMO 605 Atmospheric Phenomena

ATMO 621 Atmospheric Science

ATMO 638 Dynamics of Convective Clouds

ATMO 666 Agricultural Meteorology

ATMO 635 Atmospheric Thermodynamics

GEOG 641 Hist. Geography of the World System

GEOG 646 Periglacial Geomorphology

GEOL 646 Biogeochemical Cycling

GEOL 667 Structural Geology II

GEOP 630 Interactive Seismic Interpretation

Special Consideration Item:

The College of Education and Human Development would like the GC to review the attached request for the deactivation of the MS/MED in Career Development option in Ed. Psychology.

Special Consideration Item:

Course Withdrawal within the College of Education and Human Development for SPSY 629.

Special Consideration Item:

Proposal within the College of Liberal Arts to allow their students working specifically in early modern philosophy to take 24 hours of approved graduate courses in several fields instead of getting a master's in a single discipline.

Special Consideration Items:

Course Withdrawal-College of Liberal Arts

MODL 645 Studies in Modern and Classical Literatures

COML 603 Introduction to Comparative Literature

COML 645 Studies in Comparative Literature and Culture

COML 685 Directed Studies

COML 689 Special Topics in Comparative Literature and Culture

COML 691 Research

COML 697 Methodology of Teaching English and Foreign Language and Literatures