REPORT OF THE GRADUATE COUNCIL MEETING  
November 20, 2003

I. Approved requests for new graduate courses as follows:

BUSH 606. International Politics in Theory and Practice. (3-0). Credit 3. The effects of international politics on the competing forces of global integration and disintegration are investigated and policy implications are considered, drawing upon theories of interstate politics. Prerequisite(s): Admission to MPIA or approval of instructor.

BUSH 625. International Trade Policy Analysis. (3-0). Credit 3. Traditional and strategic trade theory and analysis are used to examine such concepts as comparative advantage, the Heckscher-Ohlin-Samuelson model, the gains from specialization and trade, partial equilibrium analysis of free trade, violations of the free trade model, welfare effects of trade, trade creation and diversion, and other topics. Prerequisite(s): Graduate classification; instructor permission.

BUSH 626. Balance of Payments in Theory and Policy. (3-0). Credit 3. This is a course on the basic macroeconomics of open economy, coordination of policies and exchange rate regimes, the main characteristics of the international payments system, the role of international organizations and proposals for reform. It is intended as a survey course with emphasis on current policy issues. Prerequisite(s): Graduate classification; instructor permission; ECON 203 or equivalent.

BUSH 653. Technical Collections Systems for International Security. (3-0). Credit 3. An introduction to the technical aspects of remote sensing and signals technology applied to international security issues and an introduction to interpretation of the acquired information. Featured outside speakers from U.S. government agencies explain the operation of technical collection systems and their contribution to national and international security. Prerequisite(s): Graduate classification; instructor permission.

BUSH 654. Military Strategy in the Conduct of Nations. (3-0). Credit 3. This course is an overview of strategic thought and national security policy. It focuses on both the works of prominent military theorists, the historical context, and the significance for current international strategic affairs. Prerequisite(s): Admission to MPIA or approval of instructor.

CVEN 684. Professional Internship. (3-0). Credit 3. Training under the supervision of practicing professional engineers in settings appropriate to the student’s professional objectives, away from Texas A&M campus. Prerequisite(s): Approval of the department head and one semester of graduate work completed.

EDTC 646. Instructional Applications of Computer Technologies II. (3-0). Credit 3. Issues (social, educational, etc.) and techniques associated with educational applications of computers and related resources and techniques (graphics, multimedia, etc.); relationship of course activities and products to individual educational/instructional philosophies; web-supported. Prerequisite(s): Graduate classification; approval of department head.

cross-phase modulation. Raman and Brillouin effects in optical fibers. Prerequisite(s): ELEN 370 or consent of instructor.

IDIS 664. Distribution Profitability Analysis. (3-0). Credit 3. Integrating advanced financial and accounting analysis useful to distribution executives in assessing the financial performance of distribution operations. Concepts and techniques in using financial statements and industrial distribution industry studies to manage cash flow, debt, working capital risk, capital budgeting, credit, receivables, inventory, personnel and profitability. Prerequisite(s): IDIS 611, Admission to MID Program.

MARB 616. Introduction to Methods in Scientific Diving. (2-3). Credit 3. Prepares students to use SCUBA as a research tool for the marine sciences in compliance with University, American Academy of Underwater Sciences, and Federal OSHA standards. Practical work in pool and open waters will compliment academic experience and provide training toward scientific diver status. Prerequisite(s): Advanced scuba certification.

MARB 617. Research Diving Methods. (0-6). Credit 2. Field experience in a wide range of diving environments stressing dive planning and safety, buoyancy control, equipment configuration and scientific methodology in biological, physical, chemical, archaeological and geological sciences. Students will design, supervise and conduct independently developed scientific diving projects. Prerequisite(s): MARB 616 or equivalent.

MARS 680. Integrative Analysis in Marine Resource Management. (2-0). Credit 2. Review of public policy change mechanisms in marine resources management, including Congressional testimony, agency recommendations and structure, and NGO reports. Students propose and defend a public policy change with detailed documentation and an oral presentation demonstrating a professional understanding of marine resources issues with the context of current law. Prerequisite(s): 24 hours of MARM course credits completed, or in concurrent enrollment, approval of instructor.

MEEN 655. Design of Nonlinear Control Systems. (3-0). Credit 3. To enable the students to design controllers for nonlinear and uncertain systems; and apply their designs to mechanical systems. Prerequisite(s): Graduate classification, MEEN 651 or equivalent.

II. Approved requests for graduate course changes as follows:

Course contact hour and cross-listing change:

BAEN 651 – Geographic Information Systems

from: (2-3). Credit 3.
to: (2-2). Credit 3.

from: None
to: FRSC 651
FRSC 651 - Geographic Information Systems

from: (2-3). Credit 3.
to: (2-2). Credit 3.

from: None
to: BAEN 651
Course contact hour change:

CHEN 604 – Chemical Engineering Process Analysis I
from: (3-0). Credit 3.
to: (4-0). Credit 4.

CHEN 614 – Advanced Transport Phenomena I
from: (3-0). Credit 3.
to: (4-0). Credit 4.

CHEN 623 – Application of Thermodynamics to Chemical Engineering
from: (3-0). Credit 3.
to: (4-0). Credit 4.

CHEN 624 – Chemical Engineering Kinetics and Reactor Design
from: (3-0). Credit 3.
to: (4-0). Credit 4.

Course description change:

CVEN 686 – Offshore and Coastal Structure
from: Fundamental design and analysis techniques; offshore platforms for shallow and deep water, pile driving analysis of large offshore piles by the wave equation; solutions to problems submitted by industry to the class during the semester.
to: Fundamental design and analysis techniques; offshore platforms for shallow and deep water, pile supported, gravity based and floating platforms; new design problems faced by the offshore industry will be examined by the class during the semester.

Course prerequisite, and description change:

NUEN 601 – Nuclear Reactor Theory
from: NUEN 404 and registration in MATH 601
to: Approval of Instructor

from: Neutron energy spectra in infinite homogeneous media; diffusion approximation; one-speed and multigroup diffusion theory and criticality calculations for bare homogeneous reactors; reflected homogeneous reactors; changes in reactivity.
to: Neutron-nucleus interactions; neutron energy spectra; transport and diffusion theory; multigroup approximation; criticality calculations; cross-section processing; buildup and depletion calculations; modern reactor analysis methods and codes.

Course title, and description change:

EDTC 645 – Instructional Applications of Computer Technologies I
from: EDTC 645 – Computer Applications in Education/Instruction
EDTC 645 – Instructional Applications of Computer Technologies I

Introduction to the integration of computers, telecommunications, and related technologies into educational practice; resources for personal productivity and development/delivery of instructional materials; applications for both educators and students (word processing, databases, etc.); projects include hands-on development of HyperText, MultiMedia, and Internet (web-based) resources in participant’s own area of study.

IDIS 634 – Quality Issues in Industrial Distribution

IDIS 634 – Quality Concepts in ID

Concepts, issues and techniques used to plan, analyze, control, and improve the quality of industrial distribution products and processes for increased consumer satisfaction.

MICR 614 – Microbial Development

MICR 614 – Signaling and Development

BICH 410 and 411 or GENE 431

Sensing, signal transduction, regulation, differentiation, and morphogenesis as it occurs in prokaryotic and eukaryotic microorganisms at molecular, cellular, and genetic levels explored through classic and current research literature.

BIOL 602 – Transmission Electron Microscopy

BIOL 602 – Fund TEM
Students are required to write a half-page summary describing the specific problem they wish to resolve using TEM.

Methods of studying biological material with the transmission electron microscope, fixation, ultra-microtomy, cytochemistry, replica and shadowing, and other biological related procedures.

This course is designed to provide students with state-of-the-art fundamentals in transmission electron microscopy (TEM). Students will be equipped with the necessary theoretical background in support of a strong hands-on course component comprising specimen preparation, image acquisition and interpretation. Students will gain sufficient practical experience to attain a proficiency level permitting independent operation of one of the transmission electron microscopes in the Microscopy and Imaging Center.

NUEN 606 – Reactor Experimentation

Control rod and power calibrations are performed; effects of scattering, absorption and moderation on the reactor are determined; reactor core is disassembled and a critical experiment performed.

Perturbation theory; delayed neutrons and reactor kinetics; lattice physics calculations; full core calculations; analysis and measurement of reactivity coefficients; analysis and measurement of flux distribution; analysis and measurement of rod worths; critical and subcritical experiments.

(3-6). Credit 5.
(2-6). Credit 3.
The Graduate Council approved the Bush School’s proposed nonsubstantive degree change to the Master’s Degree in International Affairs.
The Graduate Council approved the request from Department of Educational Psychology, Special and Bilingual Educating request that MEd students be allowed to petition for exemption from the Final Examination.
The Graduate Council approved the Mays Business School's proposed certificate program in International Business.
The Graduate Council approved the proposed Water Management and Hydroscience MS and PhD Program.
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The Graduate Council approved the proposed Departments of Modern and Classical Languages and Hispanic Studies.
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The Graduate Council approved the administrative changes to four Master of Agriculture degrees proposed by the Department of Wildlife and Fisheries Science.