MEMORANDUM

TO: President Ray M. Bowen

SUBJECT: Approval of Graduate Curriculum Items

At its regular meeting on November 8, 1999, the Faculty Senate approved the following curriculum items from the Graduate Council and submits them for your approval. Attached is a copy of the material sent to our Senators regarding these items.

New Graduate Courses: ARCH 660; ARCH 675; BMEN 608; BMEN 650; BUSH 666; COSC 624; COSC 627; COSC 648; COSC 662; COSC 664; COSC 670; COSC 674; EPSY 648; GEOG 648; MGMT 631; MGMT 645; PETE 632; PLAN 625; SEFB 625; SPED 621; SPED 635; SPED 642. COSC 642 was withdrawn. (FS.17.58)

Changes in Courses: BUAD 620; BMEN 609; COSC 617 to COSC 601; COSC 630 to COSC 644; COSC 640 to COSC 650; COSC 666 to COSC 606; COSC 602; COSC 628; COSC 618 to COSC 608; COSC 621. COSC 619 withdrawn. (FS.17.59)

Thank you for your time and consideration. Please inform me of your action on these recommendations.

Thomas E. Wehrly
Speaker, 1999-2000

Attachment

cc: Dr. Ronald G. Douglas, Executive Vice President & Provost
    Dr. Janis P. Stout, Dean of Faculties & Associate Provost
    Dr. J. Rick Giardino, Chair, Graduate Council
    Ms. Linda F. Lacey, Director of Academic Support Services

Approved:

Ray M. Bowen, President

Date 1/7/2000
I. Approved requests for new graduate courses as follows:

ARCH 660. Design Programming. (3-0). Credit 3. Study of successful programming approaches to meet user needs in design projects; history and definition of programming, programming techniques, documentation, and case studies; applications to buildings, landscape projects, and urban design. Prerequisite: Graduate classification.

ARCH 675. Health Design and Research. (3-0). Credit 3. Examination of health environments to include buildings, healthcare gardens and restorative landscapes, and urban design for home-based care and independent living; emphasis on research-informed approaches for patient-centered design that reduce stress and promote improved health outcomes. Prerequisite: Graduate classification.

BMEN 608. Optical Diagnostic and Monitoring Principles. (3-0). Credit 3. Engineering design principles of optically based monitoring and diagnostic modalities; emphasis on generating quantitative descriptions of biochemical and biophysical interactions of optic and fiber optic systems as applied to medical diagnostics and sensing. Prerequisites: MATH 308, PHYS 208.

BMEN 650. Biomedical Optics Laboratory. (2-3). Credit 3. Biomedical optics technology; basic engineering principles used in developing therapeutic and diagnostic devices; a series of hands-on labs will be performed including optical monitoring, diagnostic, and therapeutic experiments. Prerequisites: MATH 308, PHYS 208.

BUSH 666. Advanced Public Management. (3-0). Credit 3. Examination of the primary challenge facing public managers today from the managerial, political, legal and market/entrepreneurial perspectives. Prerequisite: Graduate classification.

COSC 624. Project Acquisition and Control. (3-0). Credit 3. Acquisition of network in the construction industry; overview of organizational theory, strategic planning and business planning in the construction industry; acquisition procedures including response techniques for complex requests for proposals; financial concepts of sales and marketing, backlog, and business development budgeting in construction. Prerequisite: COSC 602 or equivalent.

COSC 627. Construction Dispute Resolution Alternatives. (3-0). Credit 3. Introduce students to theories used to resolve claims and disputes arising during the construction process, including negotiation, mediation, arbitration and litigation; emphasize alternatives to litigation and principles of negotiation useful in construction management. Prerequisite: Graduate classification.

COSC 642. Information Support System. (3-0). Credit 3. A comprehensive introduction to the principles and techniques of information systems and data communication within the construction industry; the content is directed towards the construction management student who desires a technical overview of the concepts of information systems, data transmissions and network-based technologies employed in the design and management of construction communication networks. Prerequisite: Graduate classification.
MGMT 631. Negotiations. (3-0). Credit 3. Students will improve their skills in all phases of negotiation—co~understanding prescriptive and descriptive negotiation theory as it applied to dyadic and multi-party negotiations, to buyer-seller transactions, dispute resolution, development of negotiation strategy and management of integrative and distributive aspects of the negotiation process. Prerequisite: None.

MGMT 645. Legal and Ethical Issues in Business. (0-3). Variable Credit 1-3. An overview of legal compliance programs, business ethics, and social responsibility issues. Prerequisite: Approval of instructor.

PETE 632. Data Integration for Petroleum Reservoirs. (3-0). Credit 3. This course provides an introduction and application of techniques that can be used to incorporate dynamic reservoir behavior into stochastic reservoir characterizations; the dynamic data can be in the form of pressure transient tests, tracer tests, multiphase production histories, or interpreted 4-D seismic information. Prerequisite: PETE 620; STAT 601; graduate classification.

PLAN 625. Geographical Information Systems in Landscape and Urban Planning. (2-3). Credit 3. Provides students an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environment studies, transportation, and hazard management one learned through course projects. Prerequisite: Graduate classification.

SEFB 625. Student Teaching in Special Education. (0-12). Credit 3. Observation and participation in special and general education classroom activity; supervised student teaching in accredited school. Special education student teachers must complete experience in both regular and special education placements. Prerequisite: Graduate classification.

SPED 621. Overview of Exceptional Students. (3-0). Credit 3. Overview of historical foundations for special education practice; definitions of disabilities, relevant educational characteristics of students with disabilities; assessment procedures associated with the identification of students’ disabilities; intervention procedures related to education of students with disabilities. Prerequisite: Graduate classification.

SPED 635. Collaboration and Consultation in Special Education. (3-0). Credit 3. Strategies to improve learning outcomes for students with significant and low incidence disabilities; educational reform strategies, identification of support services, and educational strategies to meet individual needs with inclusive settings; assessment and accountability; organization structures within the schools which facilitate inclusion. Prerequisite: Graduate classification.

SPED 642. Program Development for Students with Behavior Problems. (3-0). Credit 3. Field-based course relating to effective management of challenging and severe behavior problems in the classroom using proactive strategies; effective instruction and planned behavioral interventions; methods for observing, assessing, and analyzing challenging and severe behaviors; includes a 20-hour field based component. Prerequisite: Graduate classification.
Course description and prerequisite change:

**COSC 602**

from: An overview of skills and techniques used in construction management to estimate project costs at various levels of project development; plan and schedule projects including monitoring processes; and establish effective cost control methods. Prerequisite: Graduate classification.

to: An overview of skills and techniques used to estimate project costs, plan, schedule and monitor projects. Prerequisite: COSC 601 or equivalent and graduate classification.

**COSC 628**

from: Analysis of construction law and the construction process; legal problems in the bidding process and in the performance of the contract. Prerequisite: COSC 479 or approval of instructor.

to: Review of most common areas of law applied to the industry; application of this law to case studies; introduction to analytical processes needed to argue legal issues and claims; review of dispute resolution methods; and ethics in the construction industry. Prerequisite: COSC 463 or approval of instructor and graduate classification.

Course number and prerequisite change:

**COSC 618**

from: COSC 618. Prerequisite: Graduate classification.

to: COSC 608. Prerequisite: COSC 321 or equivalent and graduate classification.

Course withdrawal:

**COSC 619. Project Acquisition and Control.**

Course title change:

**COSC 621**

from: Construction Project Scheduling

to: Advanced Topics in Construction Project Scheduling and Project Management.