THE FACULTY SENATE
August 14, 1997

Dr. Ray M. Bowen  
President  
Texas A&M University

Dear President Bowen:

At its regular meeting held August 11, 1997 the Faculty Senate approved the following curriculum matters and recommends them for your approval.

New Graduate Courses: CPSC 670, ENGL 611, GEOG 644, GEOG 645, KINE 625, PSYC 639, and SENG 684.

Graduate Course Changes: EDTC 660, OCNG 610, VTPP 670, KINE 614, KINE 630, KINE 647, MATH 662, MATH 663, MATH 664, MATH 665, MATH 666, NUEN 602, SPED 610, and AGRO 609.

New Undergraduate Courses: ANSC 457, FSTC 457, GEOG 475, and RENR 460.

Undergraduate Course Changes: KINE 315, KINE 322, KINE 416, and RPTS 460.

New Undergraduate Course: FSTC 401.

I enclose for your information a copy of the materials sent to Senators on the above items.

Thank you for considering these items. Please inform me of your action on these recommendations.

Sincerely,

Wayne B. Wylie  
Speaker, 1997-98

Enclosures

pc: Dr. Ronald G. Douglas, Executive Vice President & Provost  
Dr. Dan H. Robertson, Chair, Graduate Council  
Dr. R. Bruce Simpson, Chair, Curriculum Committee  
Ms. Linda F. Lacey, Director of Academic Support Services

APPROVED  

DATE

TEXAS A&M UNIVERSITY COLLEGE STATION, TEXAS 77843-1225 TEL 409/845-9528 FAX 409/845-6445
Approved requests for new graduate courses as follows:

**CPSC 670. Information Storage and Retrieval. (3-0). Credit 3.** Information retrieval deals with the representation, storage, and access to very large multimedia document collections; course content includes fundamental data structures and algorithms of information storage and retrieval systems and relates techniques to design and evaluation of complete retrieval systems including cover of algorithms for indexing, compressing, and querying very large collections. Prerequisites: CPSC 310 or approval of instructor, Graduate student standing.

**ENGL 611. Seminar in Renaissance and Seventeenth-Century Literature. (3-0). Credit 3.** Advanced study in Renaissance and Seventeenth-Century British Literature. May cover individual authors, literary movements, or cultural context. May be taken up to three times as content varies. Prerequisite: One of the following: ENGL 613, 614, 615, 619, 621, or approval of instructor.

**GEOG 644. Geographic Education: Theory and Practice. (3-0). Credit 3.** Geography as an element of the educational system: K-12, undergraduate, graduate; geography's role in curricula and its practice in classrooms; includes course design and integration of geographic concepts into classroom instruction. Prerequisite: Graduate classification.

**GEOG 645. Research in Geographic Education. (3-0). Credit 3.** Research in geographic education and the interface between research in geography and geographic education. Identification of research questions, choice of methodology, review of literature, data collection and analysis, communication of results. Prerequisite: Graduate classification.

**KINE 625. Disabling Conditions and Health Impairments. (3-0). Credit 3.** To provide teachers and paraprofessionals with a working knowledge of the characteristics, etiology, and pathology of both common and uncommon disabling conditions; discuss behavioral, physiological, and medical implications of these disabilities. Prerequisite: Graduate classification.

**PSYC 639. Pediatric Psychology. (3-0). Credit 3.** Application of clinical/counseling/school psychology to children and adolescents with chronic illnesses or disabilities and their families; theoretical foundations and models for consultation, assessment, and intervention strategies; unique ethical and professional issues associated with research and service delivery in child health psychology/pediatric behavioral medicine. Prerequisite: Approval of instructor.

**SENG 684. Professional Internship. (6-0). Credit 6.** Training under the supervision of practicing engineers in settings appropriate to the student's professional objectives. Prerequisites: Approval of chair of student's advisory committee and chair of department.
I. Approved requests for graduate course changes as follows:

Course title and description change

EDTC 660

from: Interactive Video: Production and Utilization. Survey of the fundamental principles of interactive video design and production; focus on practical application of television production techniques and computer programming skills using authoring languages; experience producing materials for interactive video disc development.

to: Interactive Video/Multimedia Production and Utilization. Survey of principles of interactive video and Multi Media design/production; focus on practical applications of media (video, digitized video, audio) production techniques and instructional control programs using various authoring software; produce materials for interactive instructional programs involving CD-ROM video and audio, MPEG and Quick Time movies, video tape and video discs.

Course description, contact hour and credit change

OCNG 610

from: (3-0). Credit 3. Theory and technique of model development for marine ecosystems; mathematical representation of interactions among nutrients, phytoplankton, zooplankton, fish and physical environment; scrutiny of biological concepts and mathematical structure of existing models.

to: (3-2). Credit 4. Theory and technique of model development for marine ecosystems; mathematical representation of interactions among nutrients, phytoplankton, zooplankton, fish and the physical environment; scrutiny of biological concepts and mathematical structure of existing models; laboratory segment to focus on computational techniques applicable to classroom problems.
Course description, prerequisite contact hour and credit change

NUEN 602

from: (3-0). 3 Credits. Resonance absorption; reactor kinetics and reactivity control; temperature coefficients; perturbation theory; neutron transport. Prerequisites: NUEN 601, 604.

to: (4-0). 4 Credits. Neutron transport; resonance absorption; modern reactor analysis methods and codes; perturbation theory; reactor kinetics; reactivity coefficients. Prerequisites: NUEN 401 or equivalent; NUEN 604.

Course title and description change

SPED 610

from: The Exceptional Child. Exceptional and handicapped individuals: identification, characteristics, remedial and treatment programs, implications for educational intervention for regular and special educators.

to: Special Education and the Family. An overview of special education and major issues in the field, with an emphasis on the impact of the family. Relationships among the school, the families, and the community; impact of relationships on service provisions. Field experience working with families who have special needs.

AGRO 609

from: Agroecosystems: Analysis and Management. Provide a framework for better application of ecological principles to agricultural production systems worldwide; assess ecosystem structure, function and energy/material flows at field, farm and community levels; evaluate modeling as a tool to better understand agroecosystem functions and processes.

to: Integrated Farming Systems. Strength and weakness of modern crop and livestock production systems with respect to ecological and economic sustainability; energy flows and nutrient cycling of traditional and modern production technologies and systems; recent development and future prospects of integrated farming systems.
Course Withdrawals

VTPP 670  Remove this course from the Faculty of Toxicology catalog listing, but not from the VTPP listing.

KINE 614  Course being deleted from degree program.

KINE 630  Course being deleted from degree program.

KINE 647  Course being deleted from degree program.

Course Credit Limit Change

MATH 662

from: This course may be taken three times for credit as content varies.
to:  This course may be taken five times for credit as content varies.

Course Credit Limit Change

MATH 663

from: This course may be taken three times for credit as content varies.
to:  This course may be taken five times for credit as content varies.

MATH 664

from: This course may be taken three times for credit as content varies.
to:  This course may be taken five times for credit as content varies.

MATH 665

from: This course may be taken three times for credit as content varies.
to:  This course may be taken five times for credit as content varies.

MATH 666

from: This course may be taken three times for credit as content varies.
to:  This course may be taken five times for credit as content varies.
Report of the University Curriculum Committee
June 13, 1997

The University Curriculum Committee recommends approval of the following:

1. **New Courses**

   **ANSC 457. Hazard Analysis and Critical Control Point System. (3-0). Credit 3.** Hazard Analysis and Critical Control Point (HACCP) principles specifically related to meat and poultry; microbiological and process overviews; good manufacturing practices and standard operating procedures development. Prerequisite: FSTC 326 or approval of instructor. Cross-listed with FSTC 457.

   **FSTC 457. Hazard Analysis and Critical Control Point System. (3-0). Credit 3.** Hazard Analysis and Critical Control Point (HACCP) principles specifically related to meat and poultry; microbiological and process overviews; good manufacturing practices and standard operating procedures development. Prerequisite: FSTC 326 or approval of instructor. Cross-listed with ANSC 457.

   **GEOG 475. Advanced Topics in GIS (Geographic Information Systems). (3-2). Credit 4.** Topics related to GIS implementation, spatial database design, spatial data analysis, and various advanced GIS applications. Prerequisite: GEOG 390 or equivalent.

   **RENR 460. Development and Management of Protected Areas. (3-0). Credit 3.** Case studies illustrating social, political, and legal influences on the development and management of parks, refuges, wilderness, and other protected areas; interaction between protected-area management and tourism development in neighboring communities and regions; interpretation of social contexts. Prerequisite: RPTS 307 or 316, or 9 hours of credit in natural resource courses. Cross-listed with RPTS 460.

2. **Changes in Courses**

   **KINE 315. Elementary School Physical Activities.**

   Course prefix
   from: KINE 315.
   to: TEFB 315.

   **KINE 322. Middle School Kinesiology.**

   Course prefix and number
   from: KINE 322.
   to: TEFB 325.

Course prefix
from: KINE 416.
to: TEFB 416.

RPTS 460. Development of Recreation Resources.

Course title
from: Development of Recreation Resources.
to: Development and Management of Protected Areas.

Course description
from: Basic elements of the planning process necessary for municipal, state, federal and private recreation areas. Planning philosophy, information sources, growth and development patterns, estimation methods, regional influences, political realities and behavioral survey methods.
to: Case studies illustrating social, political, and legal influences on the development and management of parks, refuges, wilderness and other protected areas; interaction between protected-area management and tourism development in neighboring communities and regions; interpretation of social contexts.

Prerequisites
from: RPTS 307, 316.
to: RPTS 307 or 316, or 9 hours of credit in natural resource courses.

Cross-listing
from: none.
to: RENR 460.
Report of the University Curriculum Committee
July 11, 1997

The University Curriculum Committee recommends approval of the following:

1. New Courses

**FSTC 401. Food Product Development. (2-3). Credit 3.** Design and develop food products using principles of food chemistry, food processing, nutrition, sensory analysis and statistics; team collaborate to improve food product characteristics to meet the needs of a changing society.

Prerequisites: FSTC 213, 311, 312, 314, 326 or approval of instructor.