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

Dear President Bowen:

At its regular meeting held July 10, 1995 the Faculty Senate approved the following curriculum matters and recommends them for your approval.

FS.13.035 New Graduate Courses: ANTH 620, CVEN 601, EHRD 672, ENGL 665, MATH 629, MATH 672, MICR 620, and SPED 620.

FS.13.036 Graduate Course Changes: PETE 602.

FS.13.037 New Undergraduate Courses: BESC 201.

FS.13.038 Undergraduate Course Changes: GENE 320.

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

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

Sincerely,

Pierce E. Cantrell  
Speaker, 1995-96

Enclosure
pc: Dr. J. Charles Lee, Interim Executive Vice President & Provost  
Dr. Dan H. Robertson, Chair, Graduate Council  
Dr. R. Bruce Simpson, Chair, University Curriculum Committee  
Ms. Linda F. Lacey, Director of Academic Support Services
I. Approved requests for new graduate courses as follows:

ANTH 620: Prehistory of Texas. (3-0) 3 Credits. Survey of Texas prehistory from initial migration of human population 11,500 years ago to extermination or removal of Native American cultures by Europeans; processes of cultural adaptation and change to shifting environments and subsistence material correlates of world views and belief systems.

CVEN 601: Environmental Engineering Processes III. (3-0). 3 Credits. Advanced biological processes specific to environmental engineering applications including municipal, industrial and agricultural wastes. Fundamental theory of kinetics, bioenergetics, genetics, and cellular functions pertinent to natural and engineered systems including waste water treatment, remediation, treatment process units, surface and ground waters. Prerequisites: CHEM 228, CVEN 301.

EHRD 672: Television Production Techniques. (3-0) 3 Credits. Current television production techniques utilized in distance learning; developing an understanding and skill level in producing television programs and video tapes that enhance the HRD aspects of distance learning and corporate training and development. Prerequisite: Graduate Classification.

ENGL 665: Topics in Discourse Studies. (3-0). 3 Credits. Integrates theory and methodology from rhetoric, linguistics, critical theory; makes connections among disciplines that share major research interests. Prerequisite: Graduate Classification.

MATH 629: History of Mathematics. (3-0). 3 Credits. Major events in the evolution of mathematical thought from ancient times to the present, the development of various important branches of mathematics, including numeration, geometry, algebra, analysis, number theory, probability, and applied mathematics. Prerequisites: MATH 304 or equivalent.

MATH 672: Hydrodynamic Stability. (3-0). 3 Credits. Instability mechanisms; instability of interfacial and free surface flows; thermal instability, centrifugal instability, instability of inviscid and viscous parallel shear flows; fundamental concepts and applications of nonlinear instability; the onset of turbulence; various transitions to turbulence. Prerequisites: MATH 605 or equivalent; MATH 601 or equivalent.

MICR 620: Mechanisms of Transcription Initiation. (3-0). 3 Credits. Molecular mechanisms of transcription in prokaryotes and eukaryotes, with an emphasis on prokaryotic systems; scientific papers will provide the basis for class discussion. Prerequisite: Graduate Classification.

SPED 620: Bilingual Special Education. (3-0). 3 Credits. Topics concerning bilingual education will be covered including history of the field; language acquisition and assessment; general assessment, individual education plans
The University Curriculum Committee recommends approval of the following:

1. **New Course**

   **Bioenvironmental Sciences 201. Introduction to Bioenvironmental Sciences.** (3-0). Credit 3. An introduction to the biological components of environmental sciences, with emphasis on the impact of the world's population on global resources; lectures by research scientists reflecting their disciplinary perspective in relevant areas.

2. **Changes in Course**

   **Genetics 320. Human Genetics.**

   *Title*
   
   from: Human Genetics
   to: Biomedical Genetics

   *Description*
   
   from: Mendelian inheritance, linkage and recombination, molecular basis of gene structure and function, mutation, polygenic inheritance, chromosomal aberrations and genetics of populations. Genetic and cytogenetic causes of congenital diseases in humans and genetic counseling.

   to: Fundamental genetic principles as applied to biomedical science; mendelian inheritance, linkage and genetic mapping, mutagenesis and pedigree analysis; molecular basis of gene function and inherited disease; gene therapy and genetic counseling.