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

Dear President Bowen:

At its regular meeting held January 12, 1998 the Faculty Senate approved the following curriculum matters and recommends them for your approval.

New Graduate Courses: CVEN 654, ELEN 611, ELEN 612, and VAPH 610.

New Undergraduate Courses: GEOS 101.

Course additions to the Science (Tier II) category of the Texas A&M University Core Curriculum: AGRO 105 and GEOL 307.

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 E. 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

[Handwritten signatures]
REPORT OF THE GRADUATE COUNCIL MEETING
DECEMBER 11, 1997

The Graduate Council recommends approval of the following:

1. New Courses

CVEN 654. Design and Analysis of Construction Engineering Operations. (3-0). Credit 3. Computer simulation modeling techniques for complex construction and project management operations; course focus on modeling non-determinate problems and evaluating uncertainty factors; identify methodologies for schedule versus cost process optimization; productivity improvement; and performance forecasting. Prerequisite: Graduate classification.

ELEN 611. General Theory of Electromechanical Motion Devices. (3-0). Credit 3. Winding function theory; inductances of an ideal doubly cylindrical machine; inductances of salient-pole machines, reference frame and transformation theory; dynamic equations of electric machines; steady-state behavior of electric machines. Prerequisite: Approval of instructor or graduate classification.

ELEN 612. Computer Aided Design of Electromechanical Motion Devices. (3-0). Credit 3. Magnetic circuits and field distribution of electric machines; main flux path calculation; calculation of magnetizing and leakage inductance; calculation of electric machine losses; principle of design of various electric machines; finite element design of electromechanical motion devices. Prerequisite: Approval of instructor or graduate classification.

VAPH 610. Epidemiologic Methods II and Data Analysis. (3-3). Credit 4. Principles and methods for the analysis of data from epidemiologic studies including the purpose of data analysis and role of statistics, sampling distributions, probability distributions, analysis of crude, stratified and matched data, and the use of linear and logistic regression methods. Prerequisites: VAPH 608 and STAT 651 or approval of instructor.
Report of the University Curriculum Committee
December 12, 1997

The University Curriculum Committee recommends approval of the following:

1. New Course

GEOS 101. Introduction to the Geosciences. (1-0). Credit 1
Introduction to the geosciences; geography, geology, geophysics, meteorology and oceanography; areas and opportunities in the various geoscience fields. Open to all students interested in geosciences.
The Academic Affairs Committee recommends the Faculty Senate approval of the following course additions to the Science category of the Texas A&M University Core Curriculum.

COURSE ADDITIONS

Science  (Tier II)

AGRO 105. World Food and Fiber Crops. (2-2). Credit 3. Plant relationships, structure and development; environmental factors affecting plants; technological aspects of agricultural practices. Food production for an increasing population.

GEOL 307. Dinosaur World. (3-3). Credit 4. Evolutionary development of dinosaurs and Mesozoic geography, climate and terrestrial environments including dinosaur morphology; evolutionary relationships; dinosaur metabolism; and constraints imposed by gigantism; their latitudinal distribution; causal mechanism for dinosaur extinction.

(Approved by the Faculty Senate January 12, 1998  FS.15.074)