MEMORANDUM

March 27, 2006

TO: Academic Deans Council

FROM: Dr. Timothy Chamblee,
UCCC Chair

RE: Change Notice 5

Listed below are curriculum change proposals that have been recommended by the University Committee on Courses and Curricula. Under current procedure, members of the Academic Deans Council may question the approval of these proposals at any time prior to ***5:00 p.m.*** on April 12, 2006, by contacting the Committee's office (5-0831) or the office of the Vice President for Academic Affairs (5-3742). If no questions have been raised, the proposals will be considered to have been approved automatically.

AGRICULTURAL AND LIFE SCIENCES

MODIFY FROM: ADS 4222	**Sheep Science.** (2).(Prerequisite: Junior or senior standing). Two hours lecture. Breeding, feeding, management, and marketing of sheep for lamb and wool production.
TO: ADS 4222	**Small Ruminant and Diversified Livestock Production.** (2). (Prerequisite: ADS 1114, junior or senior standing, or consent of instructor). Two hours lecture. History, management, and marketing of small ruminants and diversified livestock species in relation to the production enterprise (fiber, meat, milk, breeding, stock, etc). METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER N/A 24-CHARACTER ABBREVIATION Small Livestock Product Effective: Summer 2006
ADD BCH 4113/6113	**Essentials of Molecular Genetics.** (3). Three hours lecture. A survey of molecular biology and genetics designed to provide the non-major with a comprehensive background in the field. (Credit will not be given to students matriculating in the Biochemistry or Molecular Biology degree program). METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER 26.0802 24-CHARACTER ABBREVIATION Essentials Mol Genetics Effective: Summer 2006

ADD	BCH 8653	**Genomes and Genomics.** (3). (Prerequisites: BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor). Overview of genome structure and evolution with emphasis on genomics, the use of molecular biology, robotics, and advanced computational methods to efficiently study genomes. (Same as PSS 8623). METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER 26.0802 24-CHARACTER ABBREVIATION Genomes and Genomics Effective: Fall 2006
ADD	BCH 8631	**Topics in Genomics.** (1) (Prerequisites: PSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor). Review and discussion of classic and current genomics literature; individual presentation of a seminar highlighting an area of genomics research. (Same as PSS 8613). METHOD OF INSTRUCTION: S MEHTOD OF DELIVERY: F C.I.P. NUMBER 26.0802 24-CHARACTER ABBREVIATION Topics in Genomics Effective: Fall 2007
ADD	PSS 8653	**Genomes and Genomics.** (3). (Prerequisites: BCH 4113/6113 or BCH 4713/6713 or BCH 8643 or consent of instructor). Overview of genome structure and evolution with emphasis on genomics, the use of molecular biology, robotics, and advanced computational methods to efficiently study genomes. (Same as BCH 8623). METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER 26.0802 24-CHARACTER ABBREVIATION Genomes and Genomics Effective: Fall 2006

ADD PSS 8631	**Topics in Genomics.** (1) (Prerequisites: PSS/BCH 8623 or BCH 4713/6713 or BCH 8643 or consent of instructor). Review and discussion of classic and current genomics literature; individual presentation of a seminar highlighting an area of genomics research. (Same as BCH 8613). METHOD OF INSTRUCTION: S MEHTOD OF DELIVERY: F C.I.P. NUMBER 26.0802 24-CHARACTER ABBREVIATION Topics in Genomics Effective: Fall 2007

EDUCATION

	PREREQUISITE CHANGE ONLY
MODIFY	
EDE 4886, 4896	Teaching Internship in Elementary Education
PE 4886, 4896	Teaching Internship in Physical Education
EDX 4886, 4896	Teaching Internship in Special Education
EDS 4886, 4896	Teaching Internship in Secondary Education
TKT 4886, 4896	Teaching Internship in Technology Education
MUE 4886, 4896	Teaching Internship in Music Education
HS 4886, 4896	Teaching Internship in Human Science Education
FROM:	(Prerequisite: Admission to Teacher Education and completion of professional courses).
TO:	(Prerequisite: Admission to Teacher Education, minimum grade point average of 2.5 overall and in major, and completion of all professional education courses with a C or better). Effective Date: Fall 2006

MODIFY FROM: PE 8323	**Introductory Concepts Basic to Cardiac Rehabilitation.** (3). (Prerequisite: PE 3303). Two hours lecture. Two hours laboratory. An overview of the expanding field of cardiac rehabilitation and the opportunities for the physical educator.
TO: PE 8323	**Science and Practice of Cardiopulmonary Rehabilitation.** (3). Three hours lecture. An examination of concepts, design, and implementation of cardiopulmonary rehabilitation programs that focuses on disease treatment and management, patient education, and lifestyle modifications. METHOD OF INSTRUCTION: C C.I.P. NUMBER: N/A 24-CHARACTER ABBREVIATION Sci & Prac Cardio Rehab Effective: Summer 2006
ADD TKT 4623/6263	**Diversity in Workforce and Educational Environments.** (3) Three hours lecture. Addresses apparent and perceived differences in workforce and educational environments. METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER 13.1399 24-CHARACTER ABBREVIATION Diverse Wrk & Ed Environ Effective: Fall 2006

ENGINEERING

ADD	CSE 4383/6383	**Cryptography and Network Security.** (Prerequisite: CSE 4214/6214). Three hours lecture. Basic and advanced concepts in cryptography and network security: symmetric and asymmetric cryptography, key management, wired and wireless network security protocols, network systems security. METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER 11.1003 24-CHARACTER ABBREVIATION Crypto & Network Secur Effective: Fall 2007
ADD	CSE 8283	**Empirical Software Engineering.** (3). (Prerequisite: CSE 4214/6214). Three hours lecture. Basics of empirical software engineering, metrics and modeling of the software development process, validating and comparing software engineering methods, and methods for data analysis METHOD OF INSTRUCTION: C MEHTOD OF DELIVERY: F C.I.P. NUMBER 14.0903 24-CHARACTER ABBREVIATION Empirical Software Engin Effective: Fall 2006

MODIFY FROM:	IE 3323	**Manufacturing Processes.** (3) (Prerequisite: Grade of C or better in IE 3913. Co-requisites: CHE 3413 and IE 4613). Two hours lecture. Two hours laboratory. Manufacturing processes and materials; interrelationship of product design, material properties, and processing methods; robotics and CAM systems; economic factors in material, process, and equipment selection.
TO:	IE 3323	**Manufacturing Processes.** (3) (Prerequisite: Grade of C or better in IE 3913. Co-requisite: CHE 3413). Two hours lecture. Three hours laboratory. Manufacturing processes and materials; interrelationship of product design, material properties, and processing methods; robotics and CAM systems; economic factors in material, process, and equipment selection. Effective: Fall 2006
MODIFY FROM:	IE 4333/6333	**Production Control Systems I.** (3). (Prerequisite: Grade of C or better in IE 4613). Three hours lecture. Principles, analysis, and design of production and inventory planning and control. Demand for forecasting, production scheduling and control systems and introduction to CPM.
TO:	IE 4333/6333	**Production Control Systems I.** (3). (Prerequisite: Grade of C or better in IE 4613). Three hours lecture. Principles, analysis, and design of production and inventory planning and control. Demand for forecasting, aggregated planning, inventory management, production scheduling and control systems. Effective: Fall 2006

MODIFY FROM:	IE 4353/6353	**Materials Handling** (3). (Prerequisite: IE 3124). Three hours lecture. Analysis and design of materials handling systems and components. Introduction to facilities design.
TO:	IE 4353/6353	**Materials Handling** (3). (Prerequisite: Junior or Senior standing). Three hours lecture. Analysis and design of materials handling systems and components. Introduction to facilities design. Effective: Fall 2006
MODIFY FROM:	IE 4613/6613	**Engineering Statistics I.** (3) (Prerequisite: MA 1723). Three hours lecture. Introduction to statistical analysis. Topics include: probability, probability distributions, data analysis, and statistical inferences. Simple, multiple, and polynomial models for regression and correlation.
TO:	IE 4613/6613	**Engineering Statistics I.** (3). (Prerequisite: MA 1723). Three hours lecture. Introduction to statistical analysis. Topics include: probability, probability distribution, data analysis, parameter estimation, statistical intervals, and statistical inferences. Effective: Fall 2006
MODIFY FROM:	IE 4673/6673	**Reliability Engineering.** (3) (Prerequisite: IE 4613 and MA 3253). Three hours lecture. Probability functions and statistical methods for component life testing and systems reliability prediction. System availability and maintainability. Redundancy in time-dependent and time-independent situations.
TO:	IE 4673/6673	**Reliability Engineering.** (3) (Prerequisite: IE 4613). Three hours lecture. Probability functions and statistical methods for component life testing and systems reliability prediction. System availability and maintainability. Redundancy in time-dependent and time-independent situations. Effective Date: Fall 2006

MODIFY FROM:	IE 4713/6713	**Operations Research I.** (3) (Prerequisite: CS 1213 and IE 4613). Three hours lecture. Mathematical techniques of decision making, queuing, networks, simulation and dynamic programming.
TO:	IE 4713/6713	**Operations Research I.** (3) (Prerequisite: CS 1213 and IE 4613). Three hours lecture. Mathematical techniques of decision making, queuing, networks, simulation and dynamic programming. Effective Date: Fall 2006
MODIFY FROM:	IE 4773/6773	**Systems Simulation I.** (3) (Prerequisite: Grade of C or better in IE 4613 and a grade of C or better in IE 4934). Three hours lecture. The principles of simulating stochastic systems with an emphasis on the statistics of simulation and the use of discreet-even simulation languages.
TO:	IE 4773/6773	**Systems Simulation I.** (3) (Prerequisite: Grade of C or better in IE 4934 or equivalent programming course and grade of C or better in IE 4613). Three hours lecture. The principles of simulating stochastic systems with an emphasis on the statistics of simulation and the use of discreet-even simulation languages. Effective Date: Fall 2006
MODIFY FROM:	IE 4934/6934	**Information Systems for Industrial Engineering.** (4) (Co-requisite: IE 1911). Three hours lecture. Three hours laboratory. An introduction to the design and development of information systems for use in industrial engineering applications.
TO:	IE 4934/6934	**Information Systems for Industrial Engineering.** (4) (Grade of C or better in IE 1911 or consent of instructor). Three hours lecture. Three hours laboratory. An introduction to the design and development of information systems for use in industrial engineering applications. Effective Date: Fall 2006

MODIFY FROM:	IE 8333	**Production Control Systems II.** (3). (Prerequisite: IE 4333 and consent of instructor). Three hours lecture. Inventory systems, static and dynamic production planning, operations scheduling and forecasting systems.
TO:	IE 8333	**Production Control Systems II.** (3). (Prerequisite: IE 4333 of instructor). Three hours lecture. Inventory systems, static and dynamic production planning, operations scheduling and forecasting systems. Effective Date: Fall 2006
MODIFY FROM:	IE 8773	**Systems Simulation II.** (3) (Prerequisite: IE 4773 or CS 4023/6023). Three hours lecture. Continuation of IE 4773/6773. Includes: Advanced theory and practice of simulation. The statistics of simulation. Simulation languages. Continuous simulation. (Same as CS 8023).
TO:	IE 8773	**Systems Simulation II.** (3) (Prerequisite: IE 4773/6773). Three hours lecture. Continuation of IE 4773. Includes: Advanced theory and practice of simulation. The statistics of simulation. Simulation languages. Continuous simulation. Effective Date: Fall 2006
MODIFY FROM:	IE 8913	**Engineering Economy II.** (3). (Prerequisite: IE 3913 and IE 4713). Three hours lecture. Advanced principles and methods for engineering analysis of industrial problems. Topics include criteria for decisions, project investment and analysis, and elements of risk and uncertainty.
TO:	IE 8913	**Engineering Economy II.** (3). (Prerequisite: IE 3913 and IE 4613). Three hours lecture. Advanced principles and methods for engineering analysis of industrial problems. Topics include criteria for decisions, project investment and analysis, and elements of risk and uncertainty. Effective Date: Fall 2006

FOREST RESOURCES

ADD FO 3003	**Internship in Forestry.** (3) (Prerequisite: Junior standing or consent of instructor). Professional work experience with firms or companies, non-governmental organizations, government agencies and other relevant entities. METHOD OF INSTRUCTION: F C.I.P. NUMBER 03.0506 24-CHARACTER ABBREVIATION Internship in Forestry Effective: Fall 2006

DEGREE PROPOSALS

MODIFY From: Ph.D. in Education – Agricultural and Extension Education concentration To: Ph.D. in Agricultural Science – Agricultural and Extension Education concentration	Move the PhD in Ag & Extension Ed from the College of Education to the College of Agriculture and Life Sciences. Change degree name to reflect the program move to CALS. Effective: Fall 2006
ADD Information Assurance Professional Certification, College of Engineering, Computer Science and Engineering Department	Effective: Summer 2006

All of the proposals were approved with the exception of the following:

Proposals**

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Dr. Jerome A. Gilbert Date
Associate Vice President for Academic Affairs

**Please include copies of letters accompanying proposals that are returned to departments.