MEMORANDUM

October 23, 2003

TO: Academic Deans Council

FROM: Dr. Keith L. Belli
UCCC Chair

RE: Change Notice

Listed below are curriculum change proposals which 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 October 31, 2003 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.

AGRICULTURE AND LIFE SCIENCES

MODIFY FROM:	ABE 4163	**Machinery Management for Agro-Ecosystems.** (3) (Prerequisite: ABE 1863 or equivalent). Two hours lecture. Two hours laboratory. Basic principles of operation and management of agricultural, landscape, and turf power machinery; selection of machinery based on power requirements, economy, and suitability for Agro-Ecosystems.
TO:	ABE 4163	**Machinery Management for Agro-Ecosystems.** (3) (Prerequisite: Junior standing or consent of the instructor). Two hours lecture. Two hours laboratory. Basic principles of operation and management of agricultural, landscape, and turf power machinery; selection of machinery based on power requirements, economy, and suitability for Agro-Ecosystems.

MODIFY FROM: BCH 4414	**Isotopes Tech I**. (4) Two hours lecture. Four hours laboratory. Characteristics of radioisotopes; detection and counting techniques and instrumentation; tracer techniques; health and safety systems
TO: BCH 4414/6414	**Protein Methods**. (4) (Prerequisite: Coregistration in BCH 4603/6603). Two hours lecture. Four hours laboratory. A comprehensive course to teach the student the modern methods of protein biochemistry **Effective: Spring 2004**
ADD EPP 4152/6152	**Advanced Fungal Taxonomy-Fungi Imperfecti**. (2) (Prerequisite: Consent of Instructor). One hour lecture. Two hours laboratory. Methods and practice in identification of taxon-fungi imperfecti in different ecosystems. Includes conventional macroscopic and microscopic techniques for identification compared with molecular methods. **METHOD OF INSTRUCTION**: B **C.I.P. NUMBER**: 26.0305 **24-CHARACTER ABBREVIATION**: Taxon-Fungi Imperfecti **Effective: Fall 2003**
ADD EPP 4162/6162	**Advanced Fungal Taxonomy-Ascomycetes.** (2) (Prerequisite: Consent of Instructor). One hour lecture. Two hours laboratory. Methods and practice in identification of taxon-ascomycetes in different ecosystems. Includes conventional macroscopic and microscopic techniques for identification compared with molecular methods. **METHOD OF INSTRUCTION**: B **C.I.P. NUMBER**: 26.0305 **24-CHARACTER ABBREVIATION**: Taxon Ascomycetes **Effective: Fall 2003**

ADD	EPP 4162/6162	**Advanced Fungal Taxonomy-Ascomycetes.** (2) (Prerequisite: Consent of Instructor). One hour lecture. Two hours laboratory. Methods and practice in identification of taxon-ascomycetes in different ecosystems. Includes conventional macroscopic and microscopic techniques for identification compared with molecular methods. **METHOD OF INSTRUCTION**: B **C.I.P. NUMBER**: 26.0305 **24-CHARACTER ABBREVIATION**: Taxon Ascomycetes **Effective: Fall 2003**
ADD	EPP 4172/6172	**Advanced Fungal Taxonomy-Fleshy Basidiomycetes.** (2) (Prerequisite: Consent of Instructor). One hour lecture. Two hours laboratory. Methods and practice in identification of taxon-basidiomycetes in different ecosystems. Includes conventional macroscopic and microscopic techniques for identification compared with molecular methods. **METHOD OF INSTRUCTION**: B **C.I.P. NUMBER**: 26.0305 **24-CHARACTER ABBREVIATION**: Taxon Basidiomycetes **Effective: Fall 2003**
ADD	EPP 4182/6182	**Advanced Fungal Taxonomy-Oomycetes and Zygomycetes.** (2). (Prerequisites: Consent of Instructor). One hour lecture. Two hours laboratory. Methods and practice in identification of taxon-oomycetes and zygomycetes in different ecosystems. Includes conventional macroscopic and microscopic techniques for identification compared with molecular methods. **METHOD OF INSTRUCTION**: B **C.I.P. NUMBER**: 26.0305 **24-CHARACTER ABBREVIATION**: Taxon Oom and Zyg **Effective: Fall 2003**

DELETE	GNS 9000	**Dissertation Research/Dissertation**

ARTS & SCIENCES

MODIFY FROM:	CO 3813	**Public Relations Case Problems**. (3) (Prerequisite: CO 2803). Three hours lecture. The analysis and valuation specific real and hypothetical cases using public relations theory as a base.
TO:	CO 3813	**Public Relations Case Problems**. (3) (Prerequisite: CO 3803). Three hours lecture. The written analysis, presentation, and group discussion specific and hypothetical cases using public relations theory as a base.

BUSINESS & INDUSTRY

ADD	BIS 4113/6113	**Business Information Systems Security Management.** (3) (Prerequisite: BIS 3233 or consent of instructor). Three hours lecture. Concepts, skills, tools, and techniques involved in management of computer security as it applies to today's business environment. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 52.1201 **24-CHARACTER ABBREVIATION**: BIS Security Mangement **Effective: Spring 2004**

Technical Change FROM: EC 8163	**Microeconomics.** (3). (Prerequisite: EC 3123 or EC 8103 or equivalent). Three hours lecture. Survey of demand analysis, production, cost, and supply relationships, analysis of pricing under competitive and noncompetitive conditions, analysis of income distribution with emphasis on input pricing.
TO: EC 8163	**Microeconomics I.** (3). (Prerequisite: EC 3123 or EC 8103 or equivalent). Three hours lecture. Survey of demand analysis, production, cost, and supply relationships, analysis of pricing under competitive and noncompetitive conditions, analysis of income distribution with emphasis on input pricing.
Technical Change FROM: EC 8173	**Macroeconomics.** (3) (Prerequisite: EC 3113, EC 3123, and one semester of calculus or consent of instructor). Three hours lecture. Synthesis of short and long run analysis of the macroeconomy with special emphasis on the role of fiscal and monetary policy.
TO: EC 8173	**Macroeconomics I.** (3) (Prerequisite: EC 3113, EC 3123, and one semester of calculus or consent of instructor). Three hours lecture. Synthesis of short and long run analysis of the macroeconomy with special emphasis on the role of fiscal and monetary policy.

EDUCATION

MODIFY/REVIEW FROM EPY 8273	**Neuropsychology & Neuropsychological Assessment.** (3) (Prerequisite: EPY 8293 or PSY 8353). Three hours lecture. Study of brain-based relationships with emphasis on techniques and procedures for diagnosing brain dysfunction. Study of assessment techniques, rehabilitation planning, and research contributions.
TO: EPY 8273	**Neuropsychology.** (3) (Prerequisite: consent of instructor). Three hours lecture. Study of brain-based relationships with emphasis on neuroscience. Overview of assessment techniques, rehabilitation planning, and research contributions.

ENGINEERING

ADD CHE 2212	**Chemical Engineering Analysis.** (2) (Prerequisites: MA 1723, credit or registration in CHE 2114). Two hours lecture. Introduction to the analysis of chemical engineering processes using numerical techniques. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 14.0701 **24-CHARACTER ABBREVIATION**: CHE Analysis **Effective: Spring 2004**
DELETE CHE 3823	**Chemical Engineering Analysis and Simulation**. (3) (Prerequisites: MA 3253 and CHE 3203). Three hours lecture. Application of numerical methods to fundamental topics in Chemical Engineering **Effective: Fall 2003**
MODIFY FROM: CHE 4133/6133 TO: CHE 4134/6134	**Process Design.** (3) (Prerequisite: C or better in CHE 3123, C or better in CHE 3223). Three hours lecture. Design and analysis of chemical and environmental engineering processes utilizing momentum, energy, and mass transport principles. **Process Design**. (4) (Prerequisite: IE 3913, C or better in CHE 3123, C or better in CHE 3223). Three hours lecture. Two hours laboratory. Design and analysis of chemical and environmental engineering processes utilizing momentum, energy, and mass transport principles. **Effective: Fall 2003**
MODIFY CS XXXX	**Various.** This is a prefix change only. All courses with CS prefix will be modified to CSE. **Effective: Spring 2004**

DELETE	CS 2314	**Computer Science II.** (4) (Prerequisites: CS 1314 with a grade of C or better and MA 1713). Three hours lecture. Three hours laboratory. Continuation of CS 1314. Intermediate software design and development based on object-orientated paradigm. Sorting and searching, relational data model, file organization, data representation. **Effective: Spring 2004**
MODIFY FROM:	CS 3183	**Systems Programming.** (3) (Prerequisite: CS 2314 with a grade of C or better). Three hours lecture. Overview of contemporary systems programming concepts, tools, and techniques. Shell programming, system administration tools, distributive systems, and Internet concepts.
TO:	CS 3183	**Systems Programming.** (3) (Prerequisite: CS 2383 with a grade of C or better). Three hours lecture. Overview of contemporary systems programming concepts, tools, and techniques. Shell programming, system administration tools, distributive systems, Internet concepts. **Effective: Spring 2004**
MODIFY FROM:	CS 3813	**Introduction to Formal Languages and Automata**. (3) (Prerequisite: CS 2314 and CS 2813. Both with a grade of C or better). Three hours lecture. Theoretical foundations of computer science; formal languages and automata, parsing of context -free languages; Turing machines; introduction to compatibility and complexity.
TO:	CS 3813	**Introduction to Formal Languages and Automata**. (3) (Prerequisite: CS 2383 and CS 2813. Both with a grade of C or better). Three hours lecture. Theoretical foundations of computer science; formal languages and automata, parsing of context -free languages; Turing machines; introduction to compatibility and complexity. **Effective: Spring 2004**

MODIFY FROM:	CS 4153/6153	**Data Communication and Computer Networks**. (3) (Prerequisites: CS 2314 and CS 3124 or ECE 3724, all with a grade of C or better). Three hours lecture. The concepts and practices of data communication and networking to provide the student with an understanding of the hardware and software used for data communications.
TO:	CS 4153/6153	**Data Communication and Computer Networks**. (3) (Prerequisites: CS 2383 and CS 3124 or ECE 3724, all with a grade of C or better). Three hours lecture. The concepts and practices of data communication and networking to provide the student with an understanding of the hardware and software used for data communications. **Effective: Spring 2004**
MODIFY FROM:	CS 4413/6413	**Principles of Computer Graphics.** (3) (Prerequisites: CS 2314 with a grade of C or better and MA 3113.) Three hours lecture. Graphics hardware; algorithms; graphics primitives; windowing and clipping; transformations; 3D graphics; shading; hidden surfaces; standards.
TO:	CS 4413/6413	**Principles of Computer Graphics.** (3) (Prerequisites: CS 2383 with a grade of C or better and MA 3113.) Three hours lecture. Graphics hardware; algorithms; graphics primitives; windowing and clipping; transformations; 3D graphics; shading; hidden surfaces; standards. **Effective: Spring 2004**

MODIFY FROM:	CS 4504/6504	**Database Management Systems.** (4) (Prerequisites: CS 2314 and CS 2813 both with a grade of C or better). Three hours lecture. Two hour laboratory. Modern database models; basic database management concepts; query language; database design through normalization; advanced database models; extensive database development experience in a team environment.
TO:	CS 4504/6504	**Database Management Systems.** (4) (Prerequisites: CS 2383 and CS 2813 both with a grade of C or better). Three hours lecture. Two hours laboratory. Modern database models; basic database management concepts; query language; database design through normalization; advanced database models; extensive database development experience in a team environment. **Effective: Spring 2004**
MODIFY FROM:	CS 4733/6733	**Operating Systems I.** (3) (Prerequisites: CS 2314 and CS 3124 or ECE 3724 both with a grade of C or better). Three hours lecture. Historical development of operating systems to control complex computing systems; process management, communication, scheduling techniques; file system concepts and operation; data communication, distributive process management.
TO:	CS 4733/6733	**Operating Systems I.** (3) (Prerequisites: CS 2383 and CS 3124 or ECE 3724 both with a grade of C or better). Three hours lecture. Historical development of operating systems to control complex computing systems; process management, communication, scheduling techniques; file system concepts and operation; data communication, distributive process management. **Effective: Spring 2004**

MODIFY FROM: CS 4833/6833	**Introduction to Analysis of Algorithms.** (3) (Prerequisites: CS 2314, CS 2813, and MA 2733 all with a grade of C or better). Three hours lecture. Study of complexity of algorithms and algorithm design. Tools for analyzing efficiency: design of algorithms, including recurrence, divide and conquer, dynamic programming and greedy algorithms.
TO: CS 4833/6833	**Introduction to Analysis of Algorithms.** (3) (Prerequisites: CS 2383, CS 2813, and MA 2733 all with a grade of C or better). Three hours lecture. Study of complexity of algorithms and algorithm design. Tools for analyzing efficiency: design of algorithms, including recurrence, divide-and-conquer, dynamic programming and greedy algorithms. **Effective: Spring 2004**
DELETE CS 5133	**Introduction to Computer Systems.** (3) (Prerequisites: CS 1253, CS 1213, or equivalent with a grade of C or better). Two hours lecture. Two hours laboratory. Representation of information; architecture of computing systems; machine and assembly-level languages; assembler techniques; program segmentation and linkage. **Effective: Spring 2004**

FORESTRY

ADD FO 8313	**Spatial Statistics for Natural Resources.** (3) (Prerequisite: ST 8114, and an introductory GIS course, or consent of instructor). Three hours lecture. Concepts and methods of spatial statistics as applied to natural resource monitoring and management. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 03.0506 **24-CHARACTER ABBREVIATION**: Spatial Stat Nat Res **Effective: Fall 2003**

VETERINARY MEDICINE

ADD	CVM 4523/6523	**Basic Neuroscience**. (3). Three hours lecture. This course is a targeted study of the mammalian nervous system, stressing cellular and molecular elements/function, neuronal development and regulation. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 51.2501 **24-CHARACTER ABBREVIATION**: Basic Neuroscience **Effective: Fall 2003**
ADD	CVM 8523	**Organ Systems Toxicology I.** (3) Three hours lecture. The course covers an in depth understanding of toxic responses of the liver, kidney, lung, cardiovascular, blood, and immune system. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 51.2501 **24-CHARACTER ABBREVIATION**: Organ Systems Tox. I **Effective: Spring 2004**
ADD	CVM 8533	**Organ Systems Toxicology II.** (3) Three hours lecture. The course covers an in depth understanding of toxic responses of the nervous, reproductive, endocrine, eye and skin systems. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 51.2501 **24-CHARACTER ABBREVIATION**: Organ Systems Tox. II **Effective: Spring 2005**

ADD	CVM 8543	**Mechanisms of Toxic Action.** (3) Three hours lecture. The course covers the basic mechanisms underlying the toxicity of chemicals to animals. **METHOD OF INSTRUCTION**: C **C.I.P. NUMBER**: 51.2501 **24-CHARACTER ABBREVIATION**: Mechanisms Toxic Action **Effective: Spring 2005**
ADD	CVM 8801	**Seminars in Veterinary Anesthesiology**. (1) (Prerequisite: DVM or equivalent degree, or permission from instructor). One hour seminar. Topics include physiology and pharmacology in veterinary anesthetic practice, anesthesia equipment, and anesthetic techniques. **METHOD OF INSTRUCTION**: S **C.I.P. NUMBER**: 51.2501 **24-CHARACTER ABBREVIATION**: Seminars in Vet Anes **Effective: Spring 2004**

CORE COURSES

Architecture **Natural Sciences**	ARC 2713. **Passive Systems**.

DEGREE PROGRAMS

MODIFY	College of Agriculture and Life Sciences, Bachelor of Science: Agricultural Economics	Change to Degree name and change in course requirements. **Effective: Spring 2004**
MODIFY	College of Agriculture and Life Sciences, Bachelor of Science: Agriculture; Agricultural Information Science option	Change in Degree options and course requirements. **Effective: Fall 2003**

MODIFY	College of Education, Bachelor of Science: Elementary Education	Change to course requirements **Effective: Spring 2004**
MODIFY	College of Education, Bachelor of Science: Secondary Social Studies Education	Change to course requirements **Effective: Fall 2003**
MODIFY	College of Engineering, Bachelor of Science: Chemical Engineering	Change in course requirements **Effective: Fall 2003**

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

Proposals**

FO 8313 Spatial Statistics for Natural Resources - was not approved

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_____ 10/31/2003

Dr. George Rent Date
Associate Vice President for Academic Affairs

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