

MEMORANDUM

January 27, 2005

TO: Academic Deans Council

FROM: Dr. Timothy Chamblee
UCCC Chair

RE: Change Notice 2

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 February 11, 2005 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.

ARCHITECTURE, ART & DESIGN

<p>MODIFY FROM: ARC 3904 TO: ARC 3904</p>	<p>Structures I. (4). (Prerequisite: MA 1463 or MA 1613 and ARC 2546). Three hours lecture. Three hours laboratory. Principles of statically determine structures and strength of materials relating to architectural construction. Wood is used as the primary construction material.</p> <p>Structures I. (4). (Prerequisite: MA 1613 and ARC 2546). Three hours lecture. Three hours laboratory. Application of the principles of statics and the strength of materials on structural elements.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: ARC 3913 TO: ARC 3914</p>	<p>Structures II. (3). (Prerequisite: ARC 3904). Three hours lecture. Continuation of structural principles relating to architectural construction. Analysis of indeterminate structures, deflection, and lateral loading. Structural steel is the primary material.</p> <p>Structures II. (4). (Prerequisite: ARC 3904). Three hours lecture. Three hours laboratory. Design and analysis of structural elements as part of frames and other structural systems.</p> <p>Effective: Fall 2005</p>
<p>DELETE ARC 4903</p>	<p>Structures III. (3). (Prerequisite: ARC 3913). Three hours lecture. Continuation of structural principles relating to architectural construction. Soil mechanics, reinforced concrete design, footings and foundations, masonry construction, and precast concrete design.</p> <p>Effective: Fall 2005</p>
<p>DELETE ARC 5523</p>	<p>Fifth Year Elective. (3). Two hours lecture. Three hours field visit. Students teach architecture and environmental quality to fourth-and-fifth grade Jackson Public School students.</p> <p>Effective: Fall 2005</p>

DELETE	ARC 5733	<p>Process. (3). Three hours lecture, field visits. Intangible values in building and construction as arising from the nature of materials and methods of work.</p> <p>Effective: Fall 2005</p>
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EDUCATION

MODIFY FROM:	MU 1162	<p>Survey of Music Styles. (2). Two hours lecture. An introduction to musical styles with special focus on the basic structural elements and performance media in each style. (Required for all music majors).</p>
TO:	MU 1162	<p>Music History I. (2). Two hours lecture. An introduction to musical styles and an intensive study of the music and composers of the Medieval and Renaissance periods, emphasizing listening and score-study. (Primarily for music majors.)</p> <p>Effective: Fall 2005</p>
MODIFY FROM:	MU 2322	<p>History and Literature of Music I. (2). Two hours lecture. An intensive study of the history of music, composers, and significant literature with special research topics. (Primarily for music majors.)</p>
TO:	MU 2322	<p>Music History II. (2). (Prerequisite: Grade of C or better in MU 1162 or permission of instructor). Two hours lecture. An intensive study of the music and composers of the Baroque and Classical periods, Monteverdi through Beethoven, emphasizing listening and score-study. (Primarily for music majors.)</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: MU 2323</p> <p>TO: MU 2323</p>	<p>History and Literature of Music II. (3). Three hours lecture. Emphasis on classifying and identifying period and composer characteristics. (Primarily for music majors).</p> <p>Music History III. (3). (Prerequisite: Grade of C or better in MU 2322 or permission of instructor). Three hours lecture. An intensive study of Nineteenth and Twentieth Century Western Art music and composers and music of non-Western cultures, emphasizing listening, score-study, writing and speaking. (Primarily for music majors).</p> <p>Effective: Fall 2005</p>
<p>ADD MU 2411</p>	<p>Guitar Ensemble. (1). (Audition required). One to five rehearsals per week. The study and performance of guitar ensemble literature. May be repeated for credit more than once.</p> <p>METHOD OF INSTRUCTION: Q C.I.P. NUMBER: 50.0911 24-CHARACTER ABBREVIATION: Guitar Ensemble</p> <p>Effective: Fall 2005</p>

ENGINEERING

<p>MODIFY FROM: ASE 4113</p> <p>TO: ASE 4113</p>	<p>Aerospace Engineering Laboratory I. (3). (Credit or registration in EM 3413 and GE 3513.) Six hours laboratory. Experimental techniques used in aerospace engineering; course requirements include individual research and formal research papers.</p> <p>Aerospace Engineering Laboratory I. (3). (Credit or registration in EM 3413 and GE 3513). Six hours laboratory. Experimental techniques used in aerospace engineering.</p> <p>Effective: Summer 2005</p>
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<p>MODIFY FROM: ASE 4721</p> <p>TO: ASE 4721</p>	<p>Aerospace Engineering Laboratory II. (1). (Prerequisites: ASE 4113). Three hours laboratory. Experimental techniques used in aerospace engineering.</p> <p>Aerospace Engineering Laboratory II. (1). (Prerequisite: ASE 4113). Three hours laboratory. Experimental techniques used in aerospace engineering; course requirements include individual research and formal research papers.</p> <p>Effective: Summer 2005</p>
<p>MODIFY FROM: CSE 3212</p> <p>TO: CSE 3213</p>	<p>Software Engineering Senior Project I. (2). (Prerequisite: CS 4214 with a grade of C or better). Four hours laboratory. Software requirements elicitation and specification, cost estimation, scheduling, development of project management and quality assurance plans, reviews.</p> <p>Software Engineering Senior Project I. (3). (Prerequisite: CS 4214 with a grade of C or better). Six hours laboratory. Software requirements elicitation and specification, cost estimation, scheduling, development of project management and quality assurance plans, reviews.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: CSE 3222</p> <p>TO: CSE 3223</p>	<p>Software Engineering Senior Project II. (2). (Prerequisite: CSE 4214 with a grade of C or better). Four hours laboratory. Teamwork, software design, construction, implementation of project management and quality assurance plans, and configuration management.</p> <p>Software Engineering Senior Project II. (3). (Prerequisite: CS 4214 with a grade of C or better). Six hours laboratory. Teamwork, software design, construction, implementation of project management and quality assurance plans, and configuration management.</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: CSE 4153/6153</p> <p>TO: CSE 4153/6153</p>	<p>Data Communications and Computer Networks. (3). (Prerequisites: CSE 2384 and ECE 3724, all with a grade of C or better). Three hours lecture. The concepts and practices of data communications to provide the student with an understanding of the hardware and software used for data communications.</p> <p>Data Communications and Computer Networks. (3). (Prerequisites: CSE 1384 or ECE 3732, and ECE 3724, both with a grade of C or better). Three hours lecture. The concepts and practices of data communications and networking to provide the student with an understanding of the hardware and software used for data communications. (Same as ECE 4833/6833).</p> <p>Effective: Spring 2005</p>
<p>MODIFY FROM: CSE 4504/6504</p> <p>TO: CSE 4503/6503</p>	<p>Database Management Systems. (4). (Prerequisites: CSE 2383 and CSE 2813, both with a grade of C or better). Three hours lecture. Two hours laboratory. Modern database models; basic database management concepts; query languages; database design through normalization; advanced database models; extensive database development experience in a team environment.</p> <p>Database Management Systems. (3). (Prerequisites: CSE 2383 and CSE 2831, both with a grade of C or better). Three hours lecture. Modern database models; basic database management concepts; query languages; database design through normalization; advanced database models; extensive database development experience in a team environment.</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: ECE 3313</p> <p>TO: ECE 3313</p>	<p>Electromagnetics I. (3). (Prerequisite: MA 3253, PH 2223). Three hours lecture. Application of vector analysis to the theory of electromagnetic fields. Maxwell's equations are introduced individually by studying static fields and an introduction to time-varying fields.</p> <p>Electromagnetics I. (3). (Prerequisite: MS 3253 and PH 2223). Three hours lecture. Introduction to engineering electromagnetics with applications. Vector analysis, static and time-varying electromagnetic fields, wave propagation, and transmission lines.</p> <p>Effective: Spring 2005</p>
<p>MODIFY FROM: ECE 3324</p> <p>TO: ECE 3323</p>	<p>Electromagnetics II. (4). (Prerequisite: Grade of C or better in ECE 3313). Three hours lecture. Three hours laboratory. Vector potential, Poynting's vector, Maxwell's equations are used to study propagation in dielectrics and conductors, radiation, transmission lines, guides waves.</p> <p>Electromagnetics II. (3). (Prerequisite: Grade of C or better in ECE 3313). Three hours lecture. Waveguides and cavity resonators, fiber optics, antennas, electromagnetic compatibility, analytical and numerical solution techniques in electromagnetics.</p> <p>Effective: Summer 2005</p>
<p>ADD ECE 3413</p>	<p>Introduction to Electronic Circuits. (3). (Prerequisites: Credit or registration in ECE 1002, MA 3113, and PH 2223). Three hours lecture. Fundamentals of electric circuits and network analysis. Transient analysis and frequency response of networks. Introduction to operational amplifiers. AC power.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1001 24-CHARACTER ABBREVIATION: Intro Electronic Circuits</p> <p>Effective: Spring 2005</p>

ADD	ECE 3424	<p>Intermediate Electronic Circuits. (4). (Prerequisites: Grade of C or better in ECE 3413 and credit or registration in MA 3253). Three hours lecture. Three hours laboratory. Operation circuit models and application of diodes and field-effect and bipolar junction transistors. Electronic instrumentation. Foundations of electrical communications systems.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1001 24-CHARACTER ABBREVIATION: Intm Electronic Circuits</p> <p>Effective: Spring 2005</p>
ADD	ECE 3434	<p>Advanced Electronic Circuits. (4). (Prerequisites: Grade of C or better in ECE 3423). Three hours lecture. Three hours laboratory. Feedback and stability. Operational-amplifier and data-converter circuits. Introduction to CMOS logic circuits. Filters and tuned amplifiers. Signal generator circuits. Power amplifiers.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1001 24-CHARACTER ABBREVIATION: Adv Electronic Circuits</p> <p>Effective: Summer 2005</p>
MODIFY FROM:	ECE 3724	<p>Microprocessors I. (4). (Prerequisites: Grade of C or better in CSE 1233 or CSE 1284 and ECE 3714). Three hours lecture. Three hours laboratory. Architecture of microprocessor-based systems. Study of microprocessor operation, assembly language, arithmetic operations, and interfacing.</p>
TO:	ECE 3724	<p>Microprocessors. (4). (Prerequisites: Grade of C or better in both CSE 1384 and ECE 3714). Three hours lecture. Three hours laboratory. Architecture of microprocessor-based systems. Study of microprocessor operation, assembly language, arithmetic operations, and interfacing.</p> <p>Effective: Spring 2005</p>

<p>MODIFY FROM: ECE 4263/6263</p> <p>TO: ECE 4263/6263</p>	<p>Principles of VLSI Design. (3). (Prerequisites: Grade of C or better in both ECE 3724/CS 3124 and ECE 4243). Two hours lecture. Three hours laboratory. Classic and dynamic CMOS circuit design using state-of-the-art CAD tools, with emphasis on digital system cells and architecture.</p> <p>Principles of VLSI Design. (3). (Prerequisites: Grade of C or better in both ECE 3724 and ECE 4243). Two hours lecture. Three hours laboratory. Classic and dynamic CMOS circuit design using state-of-the-art CAD tools, with emphasis on digital system cells and architecture.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: ECE 4473/6473</p> <p>TO: ECE 4473/6473</p>	<p>Introduction to Computer Arithmetic. (3). (Prerequisites: ECE 3724/CS 3124 and credit or registration in ECE 4713/6713 / CSE 4113/6113). Three hours lecture. Fixed point number systems; algorithms and associated logic level implementations for fixed point addition, subtraction, multiplication, and division; floating-point formats and operation.</p> <p>Introduction to Computer Arithmetic. (3). (Prerequisites: ECE 3724 and credit or registration in ECE 4713/6713). Three hours lecture. Fixed point number systems; algorithms and associated logic level implementations for fixed point addition, subtraction, multiplication, and division; floating-point formats and operation.</p> <p>Effective: Fall 2005</p>

ADD	ECE 4653/6653	<p>Introduction to Power Electronics. (3). (Prerequisite: Grade of C or better in both ECE 3414 and ECE 3254 or equivalent). Three hours lecture. Introduction to power electronic circuits, with emphasis on design and analysis of power semiconductor converters including DC-DC converters, PWM inverters, and DC power supplies.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1001 24-CHARACTER ABBREVIATION: Intro. to Power Elect.</p> <p>Effective: Spring 2005</p>
MODIFY FROM:	ECE 4723/6723	<p>Microprocessors II. (3). (Prerequisites: Grade of C or better in both ECE 3724 and ECE 3243). Two hours lecture. Three hours laboratory. Advanced topics in microprocessor system design with emphasis on standard and microcomputer components. Program-controlled I/O, interrupts, DMA, digital peripheral devices, A/D and D/A conversion.</p>
TO:	ECE 4723/6723	<p>Embedded Systems. (3). (Prerequisites: Grade of C or better in either ECE 3424 or CSE 4153 and grade of C or better in both CSE 3324 and ECE 3724). Two hours lecture. Three hours laboratory. Advanced topics in embedded systems design using contemporary practice. Interrupt-driven, reactive, real-time, object-oriented, and distributed client/server embedded systems.</p> <p>Effective: Fall 2005</p>

ADD	ECE 4833/6833	<p>Data Communications and Computer Networks. (3). (Prerequisite: CSE 1384 or ECE 3732 and ECE 3724, both with a grade of C or better). Three hours lecture. The concepts and practices of data communications and networking to provide the student with an understanding of the hardware and software used for data communications. (Same as CSE 4153/6153).</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1001 24-CHARACTER ABBREVIATION: Data Comm Networks</p> <p>Effective: Spring 2005</p>
ADD	ECE 8813	<p>Information Theory. (3). (Prerequisite: ECE 8803 or consent of instructor). Three hours lecture. Entropy, the asymptotic equipartition property, entropy rate, data compression, channel capacity, differential entropy, the Gaussian channels, rate distortion theory.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1001 24-CHARACTER ABBREVIATION: Information Theory</p> <p>Effective: Spring 2005</p>

FOREST RESOURCES

MODIFY FROM:	FO 3015	Forest Description and Analysis. (5). (Prerequisites: FO 2213). Field and laboratory exercises to gain practical experience with forest and land measurement techniques and equipment. Mapping, inventory, and analysis of forested tracts.
TO:	FO 3015	Forest Description and Analysis. (5). (Prerequisites: ST 2113, FO 2213). Field and laboratory exercises to gain practical experience with forest and land measurement techniques and equipment. Mapping, inventory, and analysis of forested tracts.
Summer 2005		

COLLEGE OF VETERINARY MEDICINE

MODIFY FROM:	CVM 5074	Veterinary Anatomy II. (4). (Prerequisite: C or better grade in CVM 5064 and enrollment in the professional veterinary degree program). Six hours lecture-lab combination. Study of anatomy through dissection with integration of embryological/radiographic anatomy. Thorax, alimentary system/abdomen, urogenital system, pelvic cavity, and mammary gland. Canine and bovine models primarily.
TO:	CVM 5074	Veterinary Anatomy II. (4). (Prerequisite: CVM 5064 Veterinary Anatomy I and enrollment in the professional veterinary degree program). Six hours lecture-lab combination. Study of anatomy through dissection with integration of embryological/radiographic anatomy. Thorax, alimentary system/abdomen, urogenital system, pelvic cavity, and mammary gland. Canine, equine, and bovine models.

DEGREE PROPOSALS: none

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

Proposals**

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

Date

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