

## MEMORANDUM

April 16, 2009

**TO:** Academic Deans Council

**FROM:** Dr. Timothy N. Chamblee  
UCCC Chair

**RE:** Change Notice 7

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 May 1, 2009 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.

## 1. COURSE PROPOSALS

### AGRICULTURE & LIFE SCIENCES

ADD	BCH 2013	<p><b>Introduction to Forensic Science.</b> (3). (Prerequisites: BIO 1134, BIO 1144, or consent of instructor). Three hours lecture. Introduction to the field of forensic science, including areas of trace evidence. DNA, drug analysis, and an overview of forensic science techniques and technologies.</p> <p>METHOD OF INSTRUCTION: C      DELIVERY: F C.I.P. 26.0202      24-CHAR: Intro Forensic Science</p> <p>Effective: Fall 09</p>
ADD	BCH 4100	<p><b>Biochemistry and Molecular Biology Internship.</b> (1-6). Internship. Credit hours to be arranged. Supervised work, career shadowing, or research experience in disciplines related to biochemistry and molecular biology in an appropriate setting approved by the faculty advisor.</p> <p>METHOD OF INSTRUCTION: E      DELIVERY: F C.I.P. 26.0202      24-CHAR: Biochem Mol Bio Intern</p> <p>Effective: Fall 09</p>
ADD	BCH 4333/6333	<p><b>Advanced Forensic Science.</b> (3). (Prerequisites: BCH 4013/6013 or BCH 4603/6603 and BCH 4613/6613; or consent of instructor). Three hours lecture. An advanced study of the central concepts in forensic science as they relate to physiology, biochemistry and statistics.</p> <p>METHOD OF INSTRUCTION: C      DELIVERY: F C.I.P. 26.0202      24-CHAR: Adv Forensic Science</p> <p>Effective: Fall 09</p>
ADD	EPP 4173/6173	<p><b>Medical and Veterinary Entomology.</b> (3). (Prerequisites: EPP 4154 or consent of instructor). Two hours lecture. Two hours laboratory. Essentials of the biology, disease relationships surveillance, and control of arthropods parasitic on humans and animals in the context of clinical and preventive medicine.</p> <p>METHOD OF INSTRUCTION: B      DELIVERY: F C.I.P. 26.0702      24-CHAR: Med &amp; Vet Entomology</p> <p>Effective: Fall 09</p>

ARCHITECTURE, ART, & DESIGN

ADD	ART 3233	<p><b>Studio Lighting.</b> (3). (Prerequisites: ART 2103 or permission of instructor). Six hours studio. The course is an introduction to the professional studio lighting techniques.</p> <p>METHOD OF INSTRUCTION: Q            DELIVERY: F C.I.P. 50.0702                            24-CHAR: Studio Lighting</p> <p>Effective: Fall 09</p>
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BUSINESS

<p>MODIFY</p> <p>FR:</p> <p>TO:</p>	<p>BIS 1012</p> <p>BIS 1012</p>	<p><b>Introduction to Business Information Systems.</b> (3). One hour lecture. Two hours laboratory. Overview of business information systems. Integrating computer hardware, software, data, personnel and procedures is stressed. Instruction in personal productivity packages and the Internet is provided.</p> <p><b>Introduction to Business Information Systems.</b> (3). One hour lecture. Two hours laboratory. Overview of business information systems. Application of computer hardware, software, data and procedures to business processes. Covers emerging technologies, personal productivity packages and the internet.</p> <p>Effective: Fall 09</p>
<p>MODIFY</p> <p>FR:</p> <p>TO:</p>	<p>BIS 8213</p> <p>BIS 8213</p>	<p><b>Advanced Systems Analysis and Design.</b> (3). (Prerequisites: Six hours of computer programming, or consent of instructor). Three hours lecture. Analysis and design of computer-based information systems using structured methodologies. Emphasis on problem definition, requirements analysis, system design, project management, vendor relations, and quality assurance.</p> <p><b>Advanced Systems Analysis and Design.</b> (3). (Prerequisites: Three hours of computer programming, or consent of instructor). Three hours lecture. Analysis and design of computer-based information systems using structured methodologies. Emphasis on problem definition, requirements analysis, system design, project management, vendor relations, and quality assurance.</p> <p>Effective: Fall 09</p>

MODIFY FR:	BIS 8313	<b>Advanced Database Design Administration. (3).</b> (Prerequisite: BIS 8213, BIS 8413 and BIS 8613). Three hours lecture. Design and management of local and distributed data resources, database design, definition, creation, maintenance, acquisition and use. Role of Database. Administrator.
TO:	BIS 8313	<b>Advanced Database Design Administration. (3).</b> (Prerequisite: BIS 8213 and BIS 8613, and either BIS 6533 or BIS 8413). Three hours lecture. Design and management of local and distributed data resources, database design, definition, creation, maintenance, acquisition and use. Role of Database. Administrator.
Effective: Fall 09		
MODIFY FR:	BIS 8413	<b>Decision Support and Expert Systems. (3).</b> (Prerequisite: Six hours of programming and prerequisite or co-requisite: BIS 8112). Three hours lecture. Analysis of information support systems which serve the manger/user providing quantitative and qualitative based information derived from databases and model bases.
TO:	BIS 8413	<b>Decision Support and Expert Systems. (3).</b> (Prerequisite: Three hours of programming and prerequisite or co-requisite: BIS 8112). Three hours lecture. Analysis of information support systems which serve the manger/user providing quantitative and qualitative based information derived from databases and model bases.
Effective: Fall 09		

MODIFY FR:	BIS 8513	<b>Business Telecommunications.</b> (3). (Prerequisite: BIS 8213, BIS 8413 and BIS 8613). Three hours lecture. The evaluation, analysis and design of information systems utilizing data communications and networking concepts and techniques. Emphasis is on business applications and related considerations.
TO:	BIS 8513	<b>Business Telecommunications.</b> (3). (Prerequisite: BIS 8213, BIS 8613, and either BIS 6533 or BIS 8413). Three hours lecture. The evaluation, analysis and design of information systems utilizing data communications and networking concepts and techniques. Emphasis is on business applications and related considerations.  Effective: Fall 09
MODIFY FR:	BIS 8613	<b>MIS Administration.</b> (3). (Prerequisite: Six hours of programming and prerequisite or co-requisite: BIS 8112). Three hours lecture. Administration of the MIS function in the business enterprise. Emphasis on activity of managing the IS function at all levels of the firm.
TO:	BIS 8613	<b>MIS Administration.</b> (3). (Prerequisite: Three hours of programming and prerequisite or co-requisite: BIS 8112). Three hours lecture. Administration of the MIS function in the business enterprise. Emphasis on activity of managing the IS function at all levels of the firm.  Effective: Fall 09
ADD	BUS 1111	<b>Freshman Business Plan.</b> (1). One hours lecture. This course is designed to help entering freshman business majors succeed in their degree program and begin preparation for their business career after graduation.  METHOD OF INSTRUCTION: C            DELIVERY: F C.I.P. 52.0201            24-CHAR: Freshman Business Plan  Effective: Fall 09

**ARTS & SCIENCES**

<p>MODIFY FR: EN 4353/6353</p> <p>TO: EN 4353/6353</p>	<p><b>Century Critical Theory.</b> (3). (Prerequisite: Completion of English requirements in the student's major). A study of major twentieth-century strategies of interpretation, including psychoanalysis, Marxism, structuralism, feminism, deconstruction.</p> <p><b>Critical Theory Since 1900.</b> (3). (Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of major twentieth-century strategies of interpretation, including psychoanalysis, Marxism, structuralism, feminism, deconstruction.</p> <p>Effective: Spring 2010</p>
<p>MODIFY FR: EN 4663/6663</p> <p>TO: EN 4663/6663</p>	<p><b>The Twentieth-Century British and Irish Novel.</b> (3). (Prerequisite: Completion of English requirements in the student's major). A study of British and Irish novelists from Conrad and Woolf to Rushdie and Byatt, as well as literary movements including modernism, postmodernism, and postcolonialism.</p> <p><b>The British and Irish Novel Since 1900.</b> (3). (Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of British and Irish novelists from Conrad and Woolf to Rushdie and Byatt, as well as literary movements including modernism, postmodernism, and postcolonialism.</p> <p>Effective: Spring 2010</p>
<p>MODIFY FR: EN 4803/6803</p> <p>TO: EN 4803/6803</p>	<p><b>Types of Twentieth Century Drama.</b> (3). (Prerequisite: Completion of English requirements in the student's major). The development of modern American, British, and Continental drama since Ibsen.</p> <p><b>Types of Drama Since 1900.</b> (3). (Prerequisite: Completion of English requirements in the student's major). Three hours lecture. The development of modern American, British, and Continental drama since Ibsen.</p> <p>Effective: Spring 2010</p>

<p>MODIFY FR: EN 4813/6813</p> <p>TO: EN 4813/6813</p>	<p><b>The Twentieth-Century World Novel. (3).</b> (Prerequisite: Completion of English requirements in the student's major). Major world novelists of the twentieth century, excluding British, Irish, and American.</p> <p><b>The World Novel Since 1900. (3).</b> (Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Major world novelists of the twentieth century, excluding British, Irish, and American.</p> <p>Effective: Spring 2010</p>
<p>MODIFY FR: EN 4823/6823</p> <p>TO: EN 4823/6823</p>	<p><b>Twentieth-Century Poetry. (3).</b> (Prerequisite: Completion of English requirements in the student's major). Chief American and British poets; their verse technique and their contribution to poetic art.</p> <p><b>Poetry Since 1900. (3).</b> (Prerequisite: Completion of English requirements in the student's major). Three hours lecture. Chief American and British poets; their verse technique and their contribution to poetic art.</p> <p>Effective: Spring 2010</p>
<p>MODIFY FR: EN 4923/6923</p> <p>TO: EN 4923/6923</p>	<p><b>Twentieth-Century American Novel. (3).</b> (Prerequisite: Completion of English requirements in the student's major). A study of the American novel since Dreiser.</p> <p><b>American Novel Since 1900. (3).</b> (Prerequisite: Completion of English requirements in the student's major). Three hours lecture. A study of the American novel since Dreiser.</p> <p>Effective: Spring 2010</p>
<p>MODIFY FR: EN 8573</p> <p>TO: EN 8573</p>	<p><b>Studies in Twentieth-Century Literature. (3).</b></p> <p><b>Studies in Literature Since 1900. (3).</b></p>

**EDUCATION**

<p>ADD</p> <p>PE 8103</p>	<p><b>Developing Coaching Expertise.</b> (3). This course will provide graduate students with an in depth analysis and practical knowledge of the growth and development of coaches from novice to expertise.</p> <p>METHOD OF INSTRUCTION: C      DELIVERY: F C.I.P. 13.1314                      24-CHAR: Expertise</p> <p>Effective: Summer 09</p>
<p>MODIFY</p> <p>FR:                      TKI 1223</p> <p>TO:                      TKI 1223</p>	<p><b>Wood &amp; Polymer Processing.</b> (3). Two hours lecture. Two hours laboratory. The planning, operation, and control of the processing of natural and synthetic polymers and associated composites.</p> <p><b>Wood &amp; Polymer Processing.</b> (3). (Prerequisites: EG 1443 &amp; TKI 1213). Two hours lecture. Two hours laboratory. The planning, operation, and control of the processing of natural and synthetic polymers and associated composites.</p> <p>Effective: Fall 09</p>
<p>MODIFY</p> <p>FR:                      TKI 1813</p> <p>TO:                      TKI 1813</p>	<p><b>Basic Electricity and Electronics I.</b> (3). (Prerequisites: MA 1313). One hour lecture. Four hours laboratory. Study of fundamental direct current industrial electrical and electronic principles with experimentation and project construction.</p> <p><b>Basic Electricity and Electronics I.</b> (3). (Prerequisites: TKI 1213 and MA 1313). One hour lecture. Four hours laboratory. Study of fundamental direct current industrial electrical and electronic principles with experimentation and project construction.</p> <p>Effective: Fall 09</p>



<p>MODIFY FR: TKI 2113</p> <p>TO: TKI 2113</p>	<p><b>Introduction to PLC/CNC Programming.</b> (3). Three hours lecture. Study of fundamental methods in the programming of industrial PLC and CNC controllers, with regard to language and logic.</p> <p><b>Introduction to PLC Programming.</b> (3). (Prerequisite: TKI 1813). Three hours lecture. Study of fundamental methods in the programming of industrial PLC and CNC controllers, with regard to language and logic</p> <p>Effective: Fall 09</p>
<p>ADD TKI 2123</p>	<p><b>Introduction to CNC Programming.</b> (3). (Prerequisites: EG 1443 and MA 1323). Two hours lecture. Two hours laboratory. Study of fundamental concepts and techniques in the construction and programming of computer numerical controlled machines.</p> <p>METHOD OF INSTRUCTION: C DELIVERY: B C.I.P. 15.0612 24-CHAR: Intro CNC Prog</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: TKI 2323</p> <p>TO: TKI 2323</p>	<p><b>Forging &amp; Welding.</b> (3). (Prerequisite: Concurrent or credit in TKI 14813). Six hours laboratory. Practice in hand forging: annealing, hardening and tempering of tool steel; casting, gas and electric welding; plasma arc cutting.</p> <p><b>Forging &amp; Welding.</b> (3). (Prerequisite: EG 1443 &amp; Concurrent or credit in TKI 1813). Six hours laboratory. Practice in hand forging: annealing, hardening and tempering of tool steel; casting, gas and electric welding; plasma arc cutting.</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: TKI 2813</p> <p>TO: TKI 2813</p>	<p><b>Basic Electricity &amp; Electronics II. (3).</b> (Prerequisites: Ma 1313 and TKI 1813). One hour lecture. Four hours laboratory. Study of fundamental alternating current industrial electrical and electronic principles with experimentation and project construction.</p> <p><b>Basic Electricity &amp; Electronics II. (3).</b> (Prerequisites: Ma 1313 and TKI 1813). One hour lecture. Four hours laboratory. Study of fundamental alternating current industrial electrical and electronic principles with experimentation and project construction.</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: TKI 3043</p> <p>TO: TKI 3043</p>	<p><b>Industrial Safety. (3).</b> Three hours lecture. Principles and procedures relating to appraisal, organization and administration of safety programs in industrial plants including implementation of occupational safety and health legislation.</p> <p><b>Industrial Safety. (3).</b> (Prerequisite: 3043). Three hours lecture. Principles and procedures relating to appraisal, organization and administration of safety programs in industrial plants including implementation of occupational safety and health legislation.</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: TKI 3063</p> <p>TO: TKI 3063</p>	<p><b>Industrial Human Relations. (3).</b> Three hours lecture. The application of psychological principles to teacher-pupil relationships, employer-employee relationships, and other human relationships in business and industry.</p> <p><b>Industrial Human Relations. (3).</b> (Prerequisite: Junior Standing). Three hours lecture. The application of psychological principles to teacher-pupil relationships, employer-employee relationships, and other human relationships in business and industry.</p> <p>Effective: Fall 09</p>

MODIFY FR:	TKI 3103	<b>Advanced Electricity &amp; Electronics.</b> (3). (Prerequisite: TKI 1813). One hour lecture. Four hours laboratory. Continuation of TKI 1813. Study of and experimentation with industrial electronic, transistor, and integrated circuitry.
TO:	TKI 3103	<b>Advanced Electricity &amp; Electronics.</b> (3). (Prerequisite: TKI 2813). One hour lecture. Four hours laboratory. Continuation of TKI 1813. Study of and experimentation with industrial electronic, transistor, and integrated circuitry.
Effective: Fall 09		
MODIFY FR:	TKI 3183	<b>Machine Metal Processing.</b> (3). Six hours laboratory. Machine tool (drill, grinder, lathe, mill, and shaper) operations; bench metals, precision measurements, calculations, and chipless machine.
TO:	TKI 3183	<b>Machine Metal Processing.</b> (3). (Prerequisite: TKI 2123 & Junior Standing). Six hours laboratory. Machine tool (drill, grinder, lathe, mill, and shaper) operations; bench metals, precision measurements, calculations, and chipless machine.
Effective: Fall 09		
MODIFY FR:	TKI 3223	<b>Industrial Materials.</b> (3). (Prerequisite: CH 1043). Two hours lecture. Two hours laboratory. An investigation of the mechanical and characteristic properties of industrial materials. The influence of these properties on manufacturing and product service requirements.
TO:	TKI 3223	<b>Industrial Materials.</b> (3). (Prerequisite: CH 1043 and Junior Standing). Two hours lecture. Two hours laboratory. An investigation of the mechanical and characteristic properties of industrial materials. The influence of these properties on manufacturing and product service requirements.
Effective: Fall 09		

ADD	TKI 3243	<p><b>Industrial Metrology.</b> (3). (Prerequisites: TKI 2123, BQA 2113 &amp; Junior Standing). Two hours lecture. Two hours laboratory. Study of fundamental and advanced methods employed for measurement in industry.</p> <p>METHOD OF INSTRUCTION: C DELIVERY: B C.I.P. 15.0612 24-CHAR: IND MET</p> <p>Effective: Fall 09</p>
MODIFY FR:	TKI 3343	<p><b>CAD/CAM.</b> (3). Two hours lecture. Two hour laboratory. Basic to intermediate drafting and design techniques using CAD and CAM software, with special emphasis placed on tolerancing, dimensioning and manufacturing processing routes and selection.</p>
TO:	TKI 3343	<p><b>CAD/CAM.</b> (3). (Perquisite: TKI 3183) Two hours lecture. Two hour laboratory. Basic to intermediate drafting and design techniques using CAD and CAM software, with special emphasis placed on tolerancing, dimensioning and manufacturing processing routes and selection.</p> <p>Effective: Fall 09</p>
MODIFY FR:	TKI 3363	<p><b>Motion and Time Study.</b> (3). (Prerequisites: TKI 3083). Two hours lecture. Two hours laboratory. A study of the techniques for analysis of production systems, the design of work stations, and the development of time standards. (For non-I.E. students). (Same as IE 3113)</p>
TO:	TKI 3363	<p><b>Motion and Time Study.</b> (3). (Prerequisites: BQA 2113 and Junior Standing). Two hours lecture. Two hours laboratory. A study of the techniques for analysis of production systems, the design of work stations, and the development of time standards. (For non-I.E. students). (Same as IE 3113)</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: TKI 3383</p> <p>TO: TKI 3383</p>	<p><b>Forecasting and Cost Modeling.</b> (3). (Prerequisite: MGT 3114). Two hours lecture. Two hours laboratory. Use of the higher functions of spreadsheet software to undertake costing of manufacturing process routes and to forecast changes in manufacturing scenarios.</p> <p><b>Forecasting and Cost Modeling.</b> (3). (Prerequisite: BQA 2113, ACC 2013 and Junior Standing). Two hours lecture. Two hours laboratory. Use of the higher functions of spreadsheet software to undertake costing of manufacturing process routes and to forecast changes in manufacturing scenarios.</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: TKI 4113/6113</p> <p>TO: TKI 4113/6113</p>	<p><b>Industrial Fluid Power.</b> (3). (Prerequisites: PHI 1113 and TKI 3103). One hour lecture. Four hours laboratory. A practical study of fluid power concepts, components, and systems as relates to modern industrial applications and to appropriate scientific principles. Hands-on laboratory activities.</p> <p><b>Industrial Fluid Power.</b> (3). (Prerequisites: PHI 1113 TKI 2813 and Junior Standing). One hour lecture. Four hours laboratory. A practical study of fluid power concepts, components, and systems as relates to modern industrial applications and to appropriate scientific principles. Hands-on laboratory activities.</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: TKI 4203/6203</p> <p>TO: TKI 4203/6203</p>	<p><b>Automated Systems.</b> (3). (Prerequisite: TKI 4103). Two hours lecture. Two hours laboratory. An advanced study of automated systems and applications for the Industrial Technologist.</p> <p><b>Automated Systems.</b> (3). (Prerequisite: TKI 2113 and TKI 4103). Two hours lecture. Two hours laboratory. An advanced study of automated systems and applications for the Industrial Technologist.</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: TKI 4213/6213</p> <p>TO: TKI 4213/6213</p>	<p><b>Survey of Energy Sources and Power Technology.</b> (3). (Prerequisite: Three semester hours physical science or other physics). Three hours lecture. Scientific and applied approaches to energy conversion, transmission, utilization, and conservation. Internal-external combustion, nuclear, fluid, Hydroelectric, solar, etc. Current energy problems; lab demonstrations; activities.</p> <p><b>Survey of Energy Sources and Power Technology.</b> (3). (Prerequisite: Three semester hours physical science or other physics and Junior Standing). Three hours lecture. Scientific and applied approaches to energy conversion, transmission, utilization, and conservation. Internal-external combustion, nuclear, fluid, Hydroelectric, solar, etc. Current energy problems; lab demonstrations; activities.</p> <p>Effective: Fall 09</p>
<p>Modify FR: TKI 4223/633</p> <p>TO: TKI 4223/6223</p>	<p><b>Quality Assurance.</b> (3). (Prerequisites: BQA 2113 and ACC 1203). Three hours lecture. Concepts and procedures to design, plan, assure, and audit quality and quality systems.</p> <p><b>Quality Assurance.</b> (3). (Prerequisites: BQA 2113 and Junior Standing). Three hours lecture. Concepts and procedures to design, plan, assure, and audit quality and quality systems.</p> <p>Effective: Fall 09</p>
<p>ADD TKI 4413/6413</p>	<p><b>Evolution of Technology.</b> (3). (Prerequisites: EN 3313 and Senior Standing). Three hours lecture. A discussion and appraisal of modern technology and how the technology we have today evolved from the past and how it now affects mankind in industry.</p> <p>METHOD OF INSTRUCTION: C DELIVERY: F C.I.P. 15.0612 24-CHAR: Evol Tech</p> <p>Effective: Fall 09</p>

## ENGINEERING

ADD	ABE 4723/6273	<p><b>Tissue Engineering and Regeneration.</b> (3). (Prerequisite: ABE 3813). Three hours lecture. A comprehensive course covering the fundamental concepts, multidisciplinary approaches, and clinical applications of tissue engineering/regeneration.</p> <p>METHOD OF INSTRUCTION: C      DELIVERY: F C.I.P. 14.0501      24-CHAR: Tissue Engineering</p> <p>Effective: Fall 09</p>
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## FOREST RESOURCES

ADD	FO 2443	<p><b>Essentials of Biotechnology.</b> (3). Three hours lecture. An introduction to principles and applications of biotechnology. (Same as CVM 2443).</p> <p>METHOD OF INSTRUCTION: C      DELIVERY: F C.I.P. 26.1201      24-CHAR: Essentials Biotechnology</p> <p>Effective: Fall 09</p>
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## VETERINARY MEDICINE

ADD	CVM 2443	<p><b>Essentials of Biotechnology.</b> (3). Three hours lecture. An introduction to principles and applications of biotechnology. (Same as FO 2443).</p> <p>METHOD OF INSTRUCTION: C      DELIVERY: F C.I.P. 26.1201      24-CHAR: Essentials Biotechnology</p> <p>Effective: Fall 09</p>
ADD	CVM 8041	<p><b>Advanced Clinical Radiology Seminar.</b> (1). (May be repeated for credit). (Prerequisite: Course leader approval). A Bi-weekly seminar to present, discuss, and interpret radiographic, ultrasound, CT scan, and other advanced diagnostic imaging findings of current and archived clinical cases.</p> <p>METHOD OF INSTRUCTION: H      DELIVERY: F C.I.P. 60.0305      24-CHAR: Adv Clin Rad Seminar</p> <p>Effective: Fall 09</p>

ADD	CVM 8051	<p><b>Advanced Clinical Pathology Seminar.</b> (1). (May be repeated for credit). (Prerequisite: Course leader approval). Bi-weekly seminar to present, discuss, and interpret body fluid analysis, cytology, biopsy, toxicology, and/or necropsy findings and other findings of current and archived clinical cases.</p> <p>METHOD OF INSTRUCTION: H      DELIVERY: F C.I.P. 60.0305      24-CHAR: Adv Clin Path Seminar</p> <p>Effective: Fall 09</p>
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## 2. DEGREE PROPOSALS

### AGRICULTURE & LIFE SCIENCES

<p>MODIFY Degree: Bachelor of Science Major: Human Sciences Concentration: Human Development &amp; Family Studies</p>	<p>Change catalog description, and required courses.</p> <p>Effective: Fall 09</p>
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### BUSINESS

<p>MODIFY Degree: Bachelor of Accountancy Major: Accountancy</p>	<p>Change in oral communication requirement.</p> <p>Effective: Fall 09</p>
<p>MODIFY Degree: Bachelor of Business Administration Major: Economics, Finance, Real Estate Finance, Risk Management, Insurance &amp; Financial Planning, Business Administration, Management, Information Systems, Market, and BUSI Concentration: All</p>	<p>Change in oral communication requirements.</p> <p>Effective: Fall 09</p>

### EDUCATION

<p>MODIFY Degree: Bachelor of Science Major: Industrial Technology Concentrations: Industrial Automation; Manufacturing &amp; Maintenance Management; and Industrial Distribution</p>	<p>Change in catalog description, and changes to required courses in the major and concentrations.</p> <p>Effective: Fall 09</p>
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### 3. AOCE COURSE AND DEGREE PROPOSALS

#### ARTS & SCIENCES

PPA 8983	Integrative Capstone
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#### ENGINEERING

ECE 8463	Fundamentals of Speech Recognition
ECE 8483	Image and Video Coding

#### FOREST RESOURCES

FO 4423/6423	Professional Practices
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### 4. TECHNICAL CHANGE

MODIFY FR:	CH 6363	<p><b>Chemistry of the Environment.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. Human impact on the environment including agricultural chemistry; water, air and soil pollution; ozone layer; global warming and waste management. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p>
TO:	CHTC 6363	
		<p><b>Chemistry of the Environment.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. Human impact on the environment including agricultural chemistry; water, air and soil pollution; ozone layer; global warming and waste management. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p>
		<p>METHOD OF INSTRUCTION: C      DELIVERY: O C.I.P. 40.0502      24-CHAR: Environmental Chemistry</p>
		<p>Effective: Fall 09</p>

<p>MODIFY FR: CH 8073</p> <p>TO: CHTC 8073</p>	<p><b>Research Methods in Chemistry for Interdisciplinary Sciences.</b> (3). (Prerequisites: Fifteen hours CH graduate work and consent of instructor). Three hours video and online. Defining research problems and using analytical techniques in Chemistry Exploring how research in Chemistry relates to other scientific fields. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Research Methods in Chemistry for Interdisciplinary Sciences.</b> (3). (Prerequisites: Fifteen hours CH graduate work and consent of instructor). Three hours video and online. Defining research problems and using analytical techniques in Chemistry Exploring how research in Chemistry relates to other scientific fields. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0502 24-CHAR: CH Research Meth MAIS</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: CH 8083</p> <p>TO: CHTC 8083</p>	<p><b>Capstone in Interdisciplinary Sciences with an Emphasis on Chemistry.</b> (3). (Prerequisites: Fifteen hours CH graduate work and consent of instructor). Two hours lecture. Three hours laboratory. Provides field experience in chemistry through planned and supervised projects and field trips. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Capstone in Interdisciplinary Sciences with an Emphasis on Chemistry.</b> (3). (Prerequisites: Fifteen hours CH graduate work and consent of instructor). Two hours lecture. Three hours laboratory. Provides field experience in chemistry through planned and supervised projects and field trips. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0502 24-CHAR: Capstone CH for MAIS</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: CH 8363</p> <p>TO: CHTC 8363</p>	<p><b>Analytical Methods in Forensics.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A survey of analytical techniques used in forensic science. Both wet chemical and instrumental methods used to investigate criminal activity. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Analytical Methods in Forensics.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A survey of analytical techniques used in forensic science. Both wet chemical and instrumental methods used to investigate criminal activity. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0502 24-CHAR: Analytical Forensics</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: CH 8463</p> <p>TO: CHTC 8463</p>	<p><b>Chemistry of Energy.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A survey of the chemistry associated with energy generation in modern society using thermochemical and kinetic principles. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Chemistry of Energy.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A survey of the chemistry associated with energy generation in modern society using thermochemical and kinetic principles. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0502 24-CHAR: Chemistry of Energy</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: CH 8473</p> <p>TO: CHTC 8473</p>	<p><b>Chemical Structure and Bonding.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A survey of the structures that atoms and molecules assume and the theory of bonding in molecules. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Chemical Structure and Bonding.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A survey of the structures that atoms and molecules assume and the theory of bonding in molecules. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0502 24-CHAR: CH Structure &amp; Bonding</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: CH 8563</p> <p>TO: CHTC 8563</p>	<p><b>Organic Molecules &amp; Polymeric Materials.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A broad coverage of organic chemistry, and its relationship to natural products, medicinal chemistry, pharmaceutical drugs, and polymers. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Organic Molecules &amp; Polymeric Materials.</b> (3). (Prerequisite: Consent of instructor). Three hours video and online. A broad coverage of organic chemistry, and its relationship to natural products, medicinal chemistry, pharmaceutical drugs, and polymers. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0502 24-CHAR: Organics &amp; Polymers</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: MA 6013</p> <p>TO: MATC 6013</p>	<p><b>Applied Mathematics for Interdisciplinary Sciences.</b> (Prerequisite: MA 1313 or equivalent). Three hours video and online. Mathematics necessary for applications in physical sciences. Topics include algebraic and transcendental functions and introductions to differentiation and integration. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Applied Mathematics for Interdisciplinary Sciences.</b> (Prerequisite: MA 1313 or equivalent). Three hours video and online. Mathematics necessary for applications in physical sciences. Topics include algebraic and transcendental functions and introductions to differentiation and integration. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Applied Math for MAIS</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: MA 6023</p> <p>TO: MATC 6023</p>	<p><b>Theory of Equations for Interdisciplinary Sciences.</b> (Prerequisite: MA 1313 or equivalent). Three hours video and online. Topics include complex numbers; polynomials and their properties; roots of algebraic equations; systems of linear equations, determinants and matrices. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Theory of Equations for Interdisciplinary Sciences.</b> (Prerequisite: MA 1313 or equivalent). Three hours video and online. Topics include complex numbers; polynomials and their properties; roots of algebraic equations; systems of linear equations, determinants and matrices. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Theory Equation for MAIS</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: MA 6033</p> <p>TO: MATC 6033</p>	<p><b>Studies in Applied Probability and Statistics.</b> (Prerequisite: MA 2113 (same as ST 2113) or equivalent). Three hours video and online. Topics include graphical methods of presenting data; analysis of data; probability, binomial distribution; normal distribution, random sampling; linear regression and correlation. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Studies in Applied Probability and Statistics.</b> (Prerequisite: MA 2113 (same as ST 2113) or equivalent). Three hours video and online. Topics include graphical methods of presenting data; analysis of data; probability, binomial distribution; normal distribution, random sampling; linear regression and correlation. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Studies App Prob &amp; Stats</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: MA 8033</p> <p>TO: MATC 8033</p>	<p><b>Studies in Discrete Mathematics.</b> (3). (Prerequisite: MA 6023 or equivalent). Three hours video and online. Selected topics from algebra, number theory, combinatorics, and graph theory. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Studies in Discrete Mathematics.</b> (3). (Prerequisite: MA 6023 or equivalent). Three hours video and online. Selected topics from algebra, number theory, combinatorics, and graph theory. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Discrete Math for MAIS</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: MA 8053</p> <p>TO: MATC 8053</p>	<p><b>Applied Linear Algebra for Interdisciplinary Studies.</b> (3). (Prerequisite: MA 6013 or equivalent). Three hours video and online. Topics include applications to discrete dynamical systems, stochastic matrices and Markov chains, linear models and curve fitting. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Applied Linear Algebra for Interdisciplinary Studies.</b> (3). (Prerequisite: MA 6013 or equivalent). Three hours video and online. Topics include applications to discrete dynamical systems, stochastic matrices and Markov chains, linear models and curve fitting. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Applied Lin Alg for MAIS</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: MA 8063</p> <p>TO: MATC 8063</p>	<p><b>Differential Equations with Mathematical Modeling.</b> (Prerequisite: MA 6013 or equivalent). Three hours video and online. Topics include building mathematical models, elementary solution techniques, graphical approaches to analysis, and using software to approximate solutions. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Differential Equations with Mathematical Modeling.</b> (Prerequisite: MA 6013 or equivalent). Three hours video and online. Topics include building mathematical models, elementary solution techniques, graphical approaches to analysis, and using software to approximate solutions. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Diff Equa w/Math Model</p> <p>Effective: Fall 09</p>

<p>MODIFY FR:</p>	<p>MA 8073</p>	<p><b>Research Methods in Mathematics and Statistics for Interdisciplinary Sciences.</b> (3). (Prerequisite: 15 hours MA graduate courses including MA 6033). Three hours video and online. Defining research problems and using analytical techniques in Mathematics and Statistics. Exploring how research in Mathematics relates to other scientific fields. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p>
<p>TO:</p>	<p>MATC 8073</p>	<p><b>Research Methods in Mathematics and Statistics for Interdisciplinary Sciences.</b> (3). (Prerequisite: 15 hours MA graduate courses including MA 6033). Three hours video and online. Defining research problems and using analytical techniques in Mathematics and Statistics. Exploring how research in Mathematics relates to other scientific fields. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p>
		<p>METHOD OF INSTRUCTION: C      DELIVERY: O C.I.P. 27.0102    24-CHAR: MA/ST Research for MAIS</p>
		<p>Effective: Fall 09</p>



<p>MODIFY FR: MA 8083</p> <p>TO: MATC 8083</p>	<p><b>Capstone in Interdisciplinary Sciences with an Emphasis on Mathematics and Statistics. (3).</b> (Prerequisite: MA 8063 or equivalent). Three hours lecture. Intended to help the student integrate the material learned in previous course work and give them the skills to implement this material in their classrooms. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Capstone in Interdisciplinary Sciences with an Emphasis on Mathematics and Statistics. (3).</b> (Prerequisite: MA 8063 or equivalent). Three hours lecture. Intended to help the student integrate the material learned in previous course work and give them the skills to implement this material in their classrooms. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 27.0102 24-CHAR: Capstone MA/ST for MAIS</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: PH 6033</p> <p>TO: PHTC 6033</p>	<p><b>Demonstrations and Concepts for Physics Teachers I. (3).</b> Three hours lecture. Topics are those normally covered in first semester high school physics. Equal emphasis on theory, problems, demonstrations, and laboratory. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Demonstrations and Concepts for Physics Teachers I. (3).</b> Three hours lecture. Topics are those normally covered in first semester high school physics. Equal emphasis on theory, problems, demonstrations, and laboratory. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0899 24-CHAR: Demo/Concept PH Teach I</p> <p>Effective: Fall 09</p>

<p>MODIFY FR: PH 6043</p> <p>TO: PHTC 6043</p>	<p><b>Demonstrations and Concepts for Physics Teachers II.</b> (3). Three hours lecture. Topics are those normally covered in second semester high school physics. Equal emphasis on theory, problems, demonstrations, and laboratory. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Demonstrations and Concepts for Physics Teachers II.</b> (3). Three hours lecture. Topics are those normally covered in second semester high school physics. Equal emphasis on theory, problems, demonstrations, and laboratory. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0899 24-CHAR: Demo/Concept PH Teach II</p> <p>Effective: Fall 09</p>
<p>MODIFY FR: PH 6043</p> <p>TO: PHTC 6043</p>	<p><b>Physical Science for Teachers.</b> (2). (Prerequisite: Consent of Instructor). Three hours video and online. Topics are those normally covered in middle school physical science. Major emphasis on theory, demonstrations, laboratory and problem solving. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p><b>Physical Science for Teachers.</b> (2). (Prerequisite: Consent of Instructor). Three hours video and online. Topics are those normally covered in middle school physical science. Major emphasis on theory, demonstrations, laboratory and problem solving. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).</p> <p>METHOD OF INSTRUCTION: C DELIVERY: O C.I.P. 40.0899 24-CHAR Physical Sci for Teacher</p> <p>Effective: Fall 09</p>

MODIFY FR:	PH 8003	<b>Topics for Physics Teachers. (3).</b> (Prerequisite: Consent of instructor and MA 6023 or its equivalent). Three hours lecture. Topics are those required to enable students to effectively teach K-12 physics topics which include theory, demonstrations, laboratory and problem solving. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).
TO:	PHTC 8003	<b>Topics for Physics Teachers. (3).</b> (Prerequisite: Consent of instructor and MA 6023 or its equivalent). Three hours lecture. Topics are those required to enable students to effectively teach K-12 physics topics which include theory, demonstrations, laboratory and problem solving. (Intended for K-12 science teachers. Course cannot be used to satisfy degree requirements in a non-distance degree).
		METHOD OF INSTRUCTION: C      DELIVERY: O C.I.P. 40.0899      24-CHAR: Topics for PH Teachers
		Effective: Fall 09

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

Proposals\*\*

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

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Date