

MEMORANDUM

April 13, 2005

TO: Academic Deans Council

FROM: Dr. Timothy Chamblee
UCCC Chair

RE: Change Notice 4

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 29, 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.

ARTS & SCIENCES

<p>MODIFY FROM: AN 4123/6123</p> <p>TO: AN 4123/6123</p>	<p>Anthropological Theory. (3). (Prerequisite: AN 1103 or its equivalent and consent of instructor). Three hours lecture. A history of the development of anthropological theory; an analysis of contemporary theoretical formulations and approaches.</p> <p>Anthropological Theory. (3). (Prerequisite: AN 1103 or its equivalent or consent of instructor). Three hours lecture. A history of the development of anthropological theory; an analysis of contemporary theoretical formulations and approaches.</p> <p>Effective: Fall 2005</p>
<p>ADD: CH 1141</p>	<p>Professional Chemistry: Paths. (1). Skills to be successful as chemistry major and possible careers in chemistry. Introduction to professional conduct of scientists and necessary computer skills.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 40.0501 24-CHARACTER ABBREVIATION: Prof Chem: Paths</p> <p>Effective: Fall 2005</p>
<p>ADD: CH 2141</p>	<p>Professional Chemistry: Tools. (1). (Prerequisite: CH 1141). One hour lecture. Advanced computer skills including chemical literature searching. Introduction to oral communication and research in chemistry.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 40.0501 24-CHARACTER ABBREVIATION: Prof Chem: Tools</p> <p>Effective: Fall 2005</p>

ADD:	CH 3141	Professional Chemistry: Literature. (1). (Prerequisite: CH 2141). One hour lecture. Advanced discussion of careers in chemistry, oral communication and searching the chemical literature. Introduction to scientific writing. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 40.0501 24-CHARACTER ABBREVIATION: Prof Chem: Literature Effective: Fall 2005
ADD:	CH 4141	Professional Chemistry: Research. (1). (Prerequisite: CH 3141). One hour lecture. Disseminating research results in chemistry. Advanced scientific writing, performing scientific research and professional conduct of scientists. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 40.0501 24-CHARACTER ABBREVIATION: Prof Chem: Research Effective: Fall 2005
ADD:	CH 4711	Senior Seminar. (1). (Prerequisite: CH 4141 or concurrent enrollment). One hour lecture. Submission of a written report and presentation of a seminar on either experimental results or a literature topic in chemistry. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 40.0501 24-CHARACTER ABBREVIATION: Senior Seminar

<p>MODIFY FROM: CO 2313</p> <p>TO: CO 3313</p>	<p>Newswriting for Electronic Media. (3). (Prerequisite: CO 2413). Three hours lecture. Practice in gathering, writing, and delivering news copy for telecommunications media. Examination of the role of the reporter, the news writer, and the newscaster.</p> <p>News Writing for Electronic Media. (3). (Prerequisite: CO 2413). Three hours lecture. Practice in analysis, gathering, writing, and delivering copy for various types of news programming.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: FLF 1114</p> <p>TO: FLF 1113</p>	<p>French I. (4). Three hours lecture. One hour recitation. An introduction to conversational French.</p> <p>French I. (3). Two hours lecture. Two recitations. An introduction to conversational French.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: FLF 1124</p> <p>TO: FLF 1123</p>	<p>French II. (4). (Prerequisite: FLF 1114 or equivalent). Three hours lecture. One recitation. Conversational French. Reading of graded texts.</p> <p>French II. (3). (Prerequisite: FLF 1113 or equivalent). Two hours lecture. Two recitations. Conversational French. Reading of graded texts.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: FLG 1114</p> <p>TO: FLG 1113</p>	<p>German I. (4). Three hours lecture. One recitation. An introduction to conversational German.</p> <p>German I. (3). Two hours lecture. Two recitations. An introduction to conversational German.</p> <p>Effective: Fall 2005</p>

MODIFY FROM: FLG 1124 TO: FLG 1123	<p>German II. (4). (Prerequisite: FLG 1114 or equivalent). Three hours lecture. One recitation. Conversational German. Reading of graded texts.</p> <p>German II. (3). (Prerequisite: FLG 1113 or equivalent). Two hours lecture. Two recitations. Conversational German. Reading of graded texts.</p> <p>Effective: Fall 2005</p>
MODIFY FROM: FLJ 1114 TO: FLJ 1113	<p>Japanese I. (4). Three hours lecture. One recitation. An introduction to conversational Japanese.</p> <p>Japanese II. (3). Two hours lecture. Two recitations. An introduction to conversational Japanese.</p> <p>Effective: Fall 2005</p>
MODIFY FROM: FLJ 1124 TO: FLJ 1123	<p>Japanese II. (4). (Prerequisite: FLJ 1114 or equivalent). Three hours lecture. One recitation. An introduction to conversational Japanese.</p> <p>Japanese II. (3). (Prerequisite: FLJ 1113 or equivalent). Two hours lecture. Two recitations. An introduction to conversational Japanese.</p> <p>Effective: Fall 2005</p>
MODIFY FROM: FLR 1114 TO: FLR 1113	<p>Russian I. (4). Three hours lecture. One recitation. An introduction to conversational Russian.</p> <p>Russian I. (3). Two hours lecture. Two recitations. An introduction to conversational Russian.</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: FLR 1124</p> <p>TO: FLR 1123</p>	<p>Russian II. (4). (Prerequisite: FLR 1114 or equivalent). Three hours lecture. One recitation. Conversational Russian. Reading of graded texts.</p> <p>Russian II. (3). (Prerequisite: FLR 1113 or equivalent). Two hours lecture. Two recitations. Conversational Russian. Reading of graded texts.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: FLS 1114</p> <p>TO: FLS 1113</p>	<p>Spanish I. (4). Three hours lecture. One recitation. An introduction to conversational Spanish.</p> <p>Spanish I. (3). Two hours lecture. Two recitations. An introduction to conversational Spanish.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: FLS 1124</p> <p>TO: FLS 1123</p>	<p>Spanish II. (4). (Prerequisite: FLS 1114 or equivalent). Three hours lecture. One recitation. Conversational Spanish. Reading of graded texts.</p> <p>Spanish II. (3). (Prerequisite: FLS 1113 or equivalent). Two hours lecture. Two recitations. Conversational Spanish. Reading of graded texts.</p> <p>Effective: Fall 2005</p>
<p>ADD: GR 4623/6623</p>	<p>Physical Meteorology. (3). (Prerequisite: GR 1603). An investigation of cloud physics/precipitation processes and solar/terrestrial radiation, including atmospheric dynamics, atmospheric electricity, optics, and instrumentation.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.0701 24-CHARACTER ABBREVIATION: Physical Meteorology</p> <p>Effective: Spring 2006</p>

<p>MODIFY FROM: GR 4633</p> <p>TO: GR 4633</p>	<p>Statistical Climatology. (3). (Prerequisites: GR 1603 or GG 1113 or equivalent). Two hours lecture. Two hours laboratory. A survey of the types of statistical weather data available. Manipulation of the data on various temporal and spatial scales.</p> <p>Statistical Climatology. (3). (Prerequisites: GR 1603 or GG 1113 or equivalent and MA 1313 or MA 1713). Two hours lecture. Two hours laboratory. A survey of the types of statistical weather data available. Manipulation of the data on various temporal and spatial scales.</p> <p>Effective: Fall 2005</p>
<p>DELETE: GR 4723/6723</p>	<p>Synoptic Meteorology II. (3). Prerequisite: GR 4713/6713). Two hours lecture. Two hours laboratory. Advanced analysis and detailed case studies of meteorological phenomena related to weather forecasting problems. Short and long-range forecasting techniques are presented.</p> <p>Effective: Fall 2005</p>
<p>ADD: GR 4733/6733</p>	<p>Synoptic Meteorology. (3). (Prerequisite: GR 1603 and MA 1713). Three hours lecture. Principles and derivation of meteorological theory. Emphasis on energy exchanges, atmospheric moisture, physical processes of atmospheric motion, air masses and fronts, and cyclogenesis.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.0701 24-CHARACTER ABBREVIATION: Synoptic Meteorology</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: GR 4753/6753</p> <p>TO: GR 4753/6753</p>	<p>Satellite and Radar Meteorology. (3). (Prerequisites: GR 4723/6723). Three hours lecture. Study of the history, the operations, and the applications of satellites and radar in weather analysis. Theory of meteorological measurements in determinations of atmospheric structure.</p> <p>Satellite and Radar Meteorology. (3). (Prerequisites: GR 1603). Three hours lecture. Study of the history, the operations, and the applications of satellites and radar in weather analysis. Theory of meteorological measurements in determinations of atmospheric structure.</p> <p>Effective: Fall 2005</p>
<p>ADD: GR 4823/6823</p>	<p>Dynamic Meteorology I. (3). (Prerequisite: GR 4733/6733). Three hours lecture. In-depth examination of the theoretical methods for determining atmospheric stability and the tools necessary to interrogate the vertical profile of the atmosphere.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.0701 24-CHARACTER ABBREVIATION: Dynamic Meteorology I</p> <p>Effective: Fall 2005</p>
<p>ADD: GR 4943/6943</p>	<p>Mesoscale Meteorology. (3). (Prerequisite: GR 4913/6913). Three hours lecture. Descriptive and physical understanding of Mesoscale processes and their relevance to the synoptic environment. A strong focus will be placed upon Severe Local Storms.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.0701 24-CHARACTER ABBREVIATION: Mesoscale Meteorology</p> <p>Effective: Spring 2006</p>

<p>MODIFY FROM: MA 3213</p> <p>TO: MA 4213</p>	<p>Mathematical Writing. (3). (Prerequisites: MA 3163 or co-registration in MA 3163 and either junior/senior standing in mathematics or consent of instructor). Three hours lecture. Refinement of specialized writing skills needed for effective communication in the mathematical sciences.</p> <p>Senior Seminar in Mathematics. (3). (Prerequisites: MA 3163, MA 3253, MA 4633). Three hours lecture. Students explore topics in current mathematical research, write expository articles, and give oral presentations. Refinement of specialized writing skills needed for effective mathematical communication.</p> <p>24-CHARACTER ABBREVIATION: Senior Seminar in Math</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: PSY 3313</p> <p>TO: PSY 3314</p>	<p>Experimental Psychology. (3). (Prerequisite: PSY 3103). Three hours lecture. Emphasis on the methods and techniques of research design. Experiments in perception, learning, animal behavior, memory and thinking.</p> <p>Experimental Psychology. (4). (Prerequisite: PSY 3103). Two hours lecture. Four hours laboratory. Introduction to the methods and techniques of research design. Practical experience in conducting experiments, analyzing data, and writing scientific reports.</p>

<p>MODIFY FROM: SW 3013</p> <p>TO: SW 3013</p>	<p>Human Behavior and Social Environment I. (3). (Prerequisite: SW 2313). Three hours lecture. Examines biological, psychological, socio-structural, and cultural aspects of human development from conception through young adulthood from a social systems perspective, emphasizing diversity and oppression.</p> <p>Human Behavior and the Social Environment I. (3). Three hours lecture. Examines biological, psychological, socio-structural, and cultural aspects of human development from conception through young adulthood from a social systems perspective, emphasizing diversity and oppression.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: SW 3213</p> <p>TO: SW 3213</p>	<p>Introduction to Social Research. (3). (Prerequisite: 9 hours of sociology and junior standing). A survey of the general field of research and methodology including an examination of the various types of research design, techniques, and procedures.</p> <p>Research Methods in Social Work. (3). (Prerequisite: ST 2113). A survey of research methodology in social work practice, including an examination of the various types of research design, techniques, and procedures.</p> <p>24-CHARACTER ABBREVIATION: Research Method Soc Work</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM:</p>	<p>SW 3533</p>	<p>Social Work Practice III. (3). (Prerequisite: SW 3523). The course focuses on processes involved in problem solving with emphasis upon groups and larger systems in generalist social work practice.</p>
<p>TO:</p>	<p>SW 3533</p>	<p>Social Work with Communications and Organizations. (3). (Prerequisite or co-requisite: SW 3523). Three hours lecture. The course focuses on processes involved in problem solving with emphasis upon groups and larger systems in generalist social work practice.</p> <p>24-CHARACTER ABBREVIATION: Soc Work w/Commun & Org</p> <p>Effective: Fall 2005</p>

ENGINEERING

<p>ADD:</p>	<p>ABE 1921</p>	<p>Introduction to Engineering Design. (1) (Prerequisite: ABE 1911). Two hours laboratory. Introduction to the process of engineering design, including project management, prototype assembly, engineering graphics, technical writing and oral presentation.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0301 24-CHARACTER ABBREVIATION: Intro to Engineer Design</p> <p>Effective: Fall 2005</p>
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ADD: ASE 4553/6553	<p>Engineering Design Optimization. (3). (Prerequisite: Consent of instructor). Three hours lecture. Introduction to optimality criteria and optimization techniques for solving constrained or unconstrained optimization problems. Sensitivity analysis and approximation. Computer application in optimization. Introduction to MDO. (Same as EM 4143/6143 and IE 4743/6743).</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0101 24-CHARACTER ABBREVIATION: Eng Design Optimization</p> <p>Effective: Spring 2006</p>
ADD: CE 3601	<p>Stress Analysis Laboratory. (1). (Prerequisite: Credit or current enrollment in EM 3213; current enrollment in CE 3603). Three hours lecture/laboratory. Concepts of stress, strain and deformations in bodies subjected to axial, bending, torsional and thermal effects. Stresses in pressure-loaded thin-wall vessels. Buckling of columns.</p> <p>METHOD OF INSTRUCTION: B C.I.P. NUMBER: 14.0801 24-CHARACTER ABBREVIATION: Stress Analysis Lab</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: CE 4601</p> <p>TO: CE 4601</p>	<p>Fundamentals of Structural Design. (1). (Prerequisites: ST 3123; a grade of C or better in CE 3603; credit or current enrollment in CE 4623 or CE 4633). Three hours laboratory. Concepts of structural design common to all Civil Engineering structural design courses; advanced load analysis in structural engineering; introduction to structural design software.</p> <p>Fundamentals of Structural Design. (1). (Prerequisites: ST 3123; a grade of C or better in CE 3603 and CE 3601; credit or current enrollment in CE 4623 or CE 4633). Three hours laboratory. Concepts of structural design common to all Civil Engineering structural design courses; advanced load analysis in structural engineering; introduction to structural design software.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: CE 4623</p> <p>TO: CE 4623</p>	<p>Steel Structures. (3). (Prerequisites: A grade of C or better in CE 3603; credit or current enrollment in CE 4601). Three hours lecture. Analysis and design of metal structures, with emphasis on members and joints.</p> <p>Steel Structures. (3). (Prerequisites: A grade of C or better in CE 3603 and CE 3601; credit or current enrollment in CE 4601). Three hours lecture. Analysis and design of metal structures, with emphasis on members and joints.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: CE 4633</p> <p>TO: CE 4633</p>	<p>Concrete Structures. (3). (Prerequisites: A grade of C or better in CE 3603; credit or current enrollment in CE 4601). Three hours lecture. Theory and problems in the analysis and design of concrete structures.</p> <p>Concrete Structures. (3). (Prerequisites: A grade of C or better in CE 3603 and CE 3601; credit or current enrollment in CE 4601). Three hours lecture. Theory and problems in the analysis and design of concrete structures.</p> <p>Effective: Fall 2005</p>

<p>MODIFY: FROM: CE 4653/6653</p> <p>TO: CE 4653/6653</p>	<p>Timber Design. (3). (Prerequisite: A grade of C or better in CE 3603; credit or current enrollment in CE 4601). Three hours lecture. Engineering properties of wood. Design of wood structural members and connections. Wood structural systems.</p> <p>Timber Design. (3). (Prerequisite: A grade of C or better in CE 3603 and CE 3601; credit or current enrollment in CE 4601). Three hours lecture. Engineering properties of wood. Design of wood structural members and connections. Wood structural systems.</p>
<p>MODIFY FROM: CHE 1233</p> <p>TO: CHE 1231</p>	<p>Design Concepts for CHE. (3). Three hours lecture. Introduction to principles of chemical engineering design. Use of computational tools (commercial process simulation software) to solve basic chemical engineering problems.</p> <p>Design Concepts for CHE. (1). One hour lecture. Introduction to basic principles of chemical engineering design and basic processes for manufacturing chemicals and other processed products. Includes project organization, environment considerations, and ethics.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: CHE 2212</p> <p>TO: CHE 2213</p>	<p>Chemical Engineering Analysis (2). (Prerequisite: MA 1723 and credit or registration in CHE 2114). Two hours lecture. Introduction to the analysis of chemical engineering processes using numerical techniques.</p> <p>Chemical Engineering Analysis. (3). (Prerequisite: MA 1723 and credit or registration in CHE 2114). Three hours lecture. Introduction to the analysis of chemical engineering processes using numerical and statistical techniques with the application of modern computational tools available to engineers.</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: CHE 4234/6234</p> <p>TO: CHE 4233/6233</p>	<p>Chemical Plant Design. (4). (Prerequisite: C or better in CHE 4134, C or better in CHE 4113). Eight hours laboratory. Application of scientific and engineering principles to the design and economic evaluation of industrial chemical plants.</p> <p>Chemical Plant Design. (3). ((Prerequisite: C or better in CHE 4134, C or better in CHE 4113). Three hours lecture. Application of scientific and engineering principles to the design and economic evaluation of industrial chemical plants.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: CSE 8011</p> <p>TO: CSE 8011</p>	<p>Seminar I. (1). Reports on recent advances and problems in computer science by students and staff; student participation, general discussion. (May be taken for credit more than once).</p> <p>Seminar. (1). Reports on recent advances and problems in computer science by guest speakers, faculty, and students; student participation, general discussion.</p> <p>Effective: Fall 2005</p>
<p>DELETE: CSE 8021</p>	<p>Seminar II. (1). Student Presentation of recent advances and problems in computer science. (May be taken for credit more than once).</p> <p>Effective: Fall 2005</p>

ADD: EM 4143/6143	<p>Engineering Design Optimization. (3). (Prerequisite: IE 4743/6743). (Prerequisite: Consent of instructor). Three hours lecture. Introduction to optimality criteria and optimization techniques for solving constrained or unconstrained optimization problems. Sensitivity analysis and approximation. Computer application in optimization. Introduction to MDO. (Same as ASE 4553/6553 and IE 4743/6743).</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0101 24-CHARACTER ABBREVIATION: Eng Design Optimization</p> <p>Effective: Spring 2006</p>
ADD: IE 4743/6743	<p>Engineering Design Optimization. (3). (Prerequisite: IE 4743/6743). (Prerequisite: Consent of instructor). Three hours lecture. Introduction to optimality criteria and optimization techniques for solving constrained or unconstrained optimization problems. Sensitivity analysis and approximation. Computer application in optimization. Introduction to MDO. (Same as ASE 4553/6553 and EM 4143/6143).</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0101 24-CHARACTER ABBREVIATION: Eng Design Optimization</p> <p>Effective: Spring 2006</p>

<p>MODIFY FROM: ME 3113</p> <p>TO: ME 3113</p>	<p>Engineering Analysis. (3). (Prerequisites: Computer Literacy, MA 3113, MA 3253, and PH 2213). Three hours lecture. Analysis of engineering problems requiring the use of engineering fundamentals and mathematical techniques of analysis with computer applications.</p> <p>Engineering Analysis. (3). (Prerequisites: Computer Literacy, Grade of C or better in MA 3113, MA 3253, and PH 2213). Three hours lecture. Analysis of engineering problems requiring the use of engineering fundamentals and mathematical techniques of analysis with computer applications.</p> <p>Effective: Summer 2005</p>
<p>ADD: ME 3133</p>	<p>Modeling and Manufacturing (3) (Prerequisite: Junior standing). Two hours lecture. Three hours laboratory. Intermediate drafting and design techniques using solid modeling software, with special emphasis placed on tolerancing, dimensioning, and manufacturing process selection.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Modeling and Manuf.</p> <p>Effective: Fall 2005</p>
<p>MODIFY FROM: ME 3313</p> <p>TO: ME 3313</p>	<p>Heat Transfer. (3). (Prerequisites: EM 3313, MA 3253, and ME 3533 or ME 3513). Three hours lecture. A study of the fundamental principles of heat transfer; processes; steady and transient conduction in solids; thermal radiation; and convective processes.</p> <p>Heat Transfer. (3). (Prerequisites: Grade of C or better in EM 3313, MA 3253, and ME 3533 or ME 3513). Three hours lecture. A study of the fundamental principles of heat transfer; processes; steady and transient conduction in solids; thermal radiation; and convective processes.</p> <p>Effective: Summer 2005</p>

<p>MODIFY FROM: ME 3403</p> <p>TO: ME 3403</p>	<p>Materials for Mechanical Engineering Design. (3). (Prerequisites: CH 1223 and EM 2413; Co-requisite EM 3213). Three hours lecture. Behavior, testing and processing of engineering materials. Emphasis is placed on the interrelation of design with processing and material selection.</p> <p>Materials for Mechanical Engineering Design. (3). (Prerequisites: Grade of C or better in CH 1223 and EM 2413; Co-requisite EM 3213). Three hours lecture. Behavior, testing and processing of engineering materials. Emphasis is placed on the interrelation of design with processing and material selection.</p> <p>Effective: Summer 2005</p>
<p>MODIFY FROM: ME 3423</p> <p>TO: ME 3423</p>	<p>Mechanics of Machinery. (3). (Prerequisites: EM 2433 and ME 3113). Three hours lecture. Analysis of mechanisms for motions, velocities, accelerations, and forces.</p> <p>Mechanics of Machinery. (3). (Prerequisites: Grade of C or better in EM 2433 and ME 3113). Three hours lecture. Analysis of mechanisms for motions, velocities, accelerations, and forces.</p> <p>Effective: Summer 2005</p>
<p>MODIFY FROM: ME 3513</p> <p>TO: ME 3513</p>	<p>Thermodynamics I. (3). (Prerequisites: CH 1223, MA 2733, and PH 2213). Three hours lecture. Definitions; properties of a pure substance; work and heat; First and Second Laws; entropy; ideal gases.</p> <p>Thermodynamics I. (3). (Prerequisites: Grade of C or better in CH 1223, MA 2733, and PH 2213). Three hours lecture. Definitions; properties of a pure substance; work and heat; First and Second Laws; entropy; ideal gases.</p> <p>Effective: Summer 2005</p>

<p>MODIFY FROM: ME 3523</p> <p>TO: ME 3523</p>	<p>Thermodynamics II. (3). (Prerequisite: ME 3513). Three hours lecture. Mixtures of ideal gases; irreversibility and availability; vapor power cycles; gas power cycles; refrigeration cycles; flow through nozzles and turbine blades; combustion; chemical equilibrium.</p> <p>Thermodynamics II. (3). (Prerequisite: Grade of C or better in ME 3513). Three hours lecture. Mixtures of ideal gases; irreversibility and availability; vapor power cycles; gas power cycles; refrigeration cycles; flow through nozzles and turbine blades; combustion; chemical equilibrium.</p> <p>Effective: Summer 2005</p>
<p>ADD: ME 4113/6113</p>	<p>Material Selection in Design (3) (Prerequisite: ME 3403 or equivalent). Three hours lecture. Principles of materials selection related to mechanical design requirements.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Mat'l Select in Design</p> <p>Effective: Fall 2005</p>
<p>ADD: ME 4123/6123</p>	<p>Failure of Engineering Materials. (3) (Prerequisite: EM 3213). Three hours lecture. The failure of constituent materials using real-world case studies is the focus. Experimental and analytical techniques for failure analysis and prevention are covered.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Failure of Eng. Mat'l</p> <p>Effective: Fall 2005</p>

<p>MODIFY FROM: ME 4403</p> <p>TO: ME 4403</p>	<p>Machine Design. (3). (Prerequisite: EM 3213). Three hours lecture. Applied stress analysis and material strength theories for sizing and selecting materials of machine elements. Selection of gears, cams, belts, springs. Design projects.</p> <p>Machine Design. (3). (Co-requisite: ME 3403; Prerequisite: Grade of C or better in EM 3213). Three hours lecture. Applied stress analysis and material strength theories for sizing and selecting materials of machine elements. Selection of gears, cams, belts, springs. Design projects.</p> <p>Effective: Summer 2005</p>
<p>ADD: ME 4743/6743</p>	<p>Labview. (3). (Prerequisite: ME 3701 or equivalent Labview Experience). Two hours lecture. Three hours laboratory. Labview programming for applications in laboratory data acquisition (DQA). Basic and intermediate graphical programming theory with emphasis on transducer measurements and triggering.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Labview</p> <p>Effective: Summer 2005</p>
<p>ADD: ME 8223</p>	<p>Inelasticity. (3). (Prerequisite: EM 8113 and EM 8203). Three hours lecture. This course covers plasticity, creep, viscoelasticity, and inelastic behavior in relation to microstructure-property relations, constitutive modeling at different length scales, and computational simulations.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Inelasticity</p> <p>Effective: Fall 2005</p>

ADD:	ME 8353	<p>Advanced Energy Conversion (3) (Prerequisite: Graduate standing in Mechanical Engineering or consent of instructor). Three hours lecture. Physical process in advanced energy conversion technologies, with practical application to devices/energy cycles. Emphasis on fuel cells, photovoltaics, and related materials engineering issues.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Adv. Energy Conversion</p> <p>Effective: Fall 2005</p>
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DEGREE PROPOSALS:

MODIFY	College of Arts and Sciences, B.A. Anthropology	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Biological Sciences	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Chemistry	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Communication	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Economics	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. English	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005

MODIFY	College of Arts and Sciences, B.A. Foreign Languages	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. General Liberal Arts	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. General Science	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Geosciences	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. History	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Mathematics with teaching certificate	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Medical Technology	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Microbiology	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Music	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences Minor in Music	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005

MODIFY	College of Arts and Sciences, B.A. Philosophy	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Physics	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Political Science	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Psychology	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S. Psychology	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.S.W. Social Work	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Arts and Sciences, B.A. Sociology	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005
MODIFY	College of Engineering, B.S. Civil Engineering	Change in curriculum to meet IHL 124-hour degree requirement. Fall 2005

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.