

MEMORANDUM

December 14, 2005

TO: Academic Deans Council

FROM: Dr. Timothy Chamblee
UCCC Chair

RE: Change Notice 3

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 January 18, 2006, by contacting the Committee's office (5-0831) or the office of the Vice President for Academic Affairs (5-3742). If no questions have been raised, the proposals will be considered to have been approved automatically.

ARTS & SCIENCES

MODIFY FROM:	AS 1012	The Air Force Today-I. (2). One hour lecture. One hour practicum. Surveys Air Force's role in contemporary world. Emphasis on strategic offensive and defensive forces.
TO:	AS 1012	Foundations of USAF-I. (2). One hour lecture. One hour practicum. Surveys Air Force's role in contemporary world. Emphasis on strategic offensive and defensive forces.
Effective: Spring 2006		
MODIFY FROM:	AS 1022	The Air Force Today-II. (2). One hour lecture. One hour practicum. A continuation of AS 1012 with emphasis on general purpose and support forces.
TO:	AS 1022	Foundations of USAF-II. (2). One hour lecture. One hour practicum. A continuation of AS 1012 with emphasis on general purpose and support forces.
Effective: Spring 2006		
MODIFY FROM:	AS 2012	The Development of Air Power-I. (2). One hour lecture. One hour practicum. Study of air power development and employment in support of national objectives and an examination of the evolution of air power concepts and doctrine.
TO:	AS 2012	Air and Space Power-I. (2). One hour lecture. One hour practicum. Study of air power development and employment in support of national objectives and an examination of the evolution of air power concepts and doctrine.
Effective: Spring 2006		

MODIFY FROM:	AS 2022	The Development of Air Power-II. (2). One hour lecture. One hour practicum. A continuation of AS 2012 with emphasis on air power since WWII.
TO:	AS 2022	Air and Space Power-II. (2). One hour lecture. One hour practicum. A continuation of AS 2012 with emphasis on air power since WWII. Effective: Spring 2006
MODIFY FROM:	CH 4411/6411	Physical Chem Lab I. (1). (Prerequisite: CH 4413/6613). Three hours laboratory. Laboratory course to accompany CH 4413/6413.
TO:	CH 4411/6411	Physical Chemistry Laboratory I. (1). (Prerequisite: Prior credit or concurrent enrollment in CH 4413/6413). Three hours laboratory. Laboratory course to accompany CH 4413/6413. Effective: Summer 2006
MODIFY FROM:	CH 4413/6413	Physical Chemistry I. (1). (Prerequisite: CH 1223, PH 2213 and MA 2733). Three hours lecture. A study of the quantitative and theoretical properties of matter. Topics include chemical thermodynamics, kinetics and solutions.
TO:	CH 4413/6413	Physical Chemistry I. (1). (Prerequisite: CH 1223, PH 2213 and MA 1723). Three hours lecture. A study of the quantitative and theoretical properties of matter. Topics include chemical thermodynamics, kinetics and solutions. Effective: Summer 2006
MODIFY FROM:	CH 4421/6421	Physical Chemistry Lab II. (1). (Prerequisite: CH 4413/6413 and CH 4411/6411). Three hours laboratory. Laboratory course to accompany CH 4423/6423.
TO:	CH 4421/6421	Physical Chemistry Laboratory II. (1). (Prerequisite: Prior credit or concurrent enrollment in CH 4423/6423). Three hours laboratory. Laboratory course to accompany CH 4423/6423. Effective: Summer 2006

MODIFY FROM: CH 4423/6423 TO: CH 4423/6423	Physical Chemistry II. (3). (Prerequisite: CH 4413). Three hours lecture. Topics include solid state, surface chemistry, macromolecules, quantum mechanics, spectroscopy, and statistical thermodynamics. Physical Chemistry II. (3). (Prerequisite: CH 1223, PH 2213 and MA 1723). Three hours lecture. Topics include solid state, surface chemistry, macromolecules, quantum mechanics, spectroscopy, and statistical thermodynamics. Effective: Summer 2006
MODIFY FROM: MA 1453 TO: MA 1453	Precalculus with Graphing Calculators . (3). (Prerequisites: Math ACT 22 or C or better in MA 1313). Three hours lecture. Properties, applications, and graphics of linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions; trigonometric identities, equations and inverses; inequalities. (Degree credit will not be granted for MA 1453 and either MA 1313 or MA 1323. This course is intended to prepare students to take MA 1713 Calculus I). Precalculus with Graphing Calculators. (3). (Prerequisites: Math ACT 24 or C or better in MA 1323 or a score of at least 70 on the Precalculus Qualifying Exam). Three hours lecture. Properties, applications, and graphs of linear, quadratic, polynomial, exponential, logarithmic, and trigonometric functions; trigonometric identities, equations and inverses; inequalities. (Degree credit will not be granted for MA 1453 and either MA 1313 or MA 1323. This course is intended to prepare students to take MA 1713 Calculus I).
ADD PHI 8101	Case Studies in Scientific Research Ethics. (1). One hour seminar. Practical application of research ethics using case scenarios to direct discussions on data ownership, plagiarism, authorship, conflict of interest, and other regulatory compliance related issues. (Same as CVM 8101). METHOD OF INSTRUCTION: S C.I.P. NUMBER: 51.2501 24-CHARACTER ABBREVIATION: Case Studies Res Ethics Effective: Spring 2006

MODIFY FROM: PS 3033 TO: PS 3033	Gender and Politics. (3). Three hours lecture. Examines gender differences in law, the courts, voting, political involvement, approaches to political power, and violence. Gender and Politics. (3). Three hours lecture. Examines gender differences in law, the courts, voting, political involvement, approaches to political power, and violence. (Same as WS 3033). Effective: Spring 2006
ADD PSY 4373/6373	Forensic Psychology. (3). (Prerequisite: PSY 1013 and junior standing). Three hours lecture. Examines topics related to the application of clinical psychology to legal matters. METHOD OF INSTRUCTION: c C.I.P. NUMBER: 42.2601 24-CHARACTER ABBREVIATION: Forensic psychology Effective: Spring 2006
ADD WS 3033	Gender Politics. (3). (Three hours lecture. Examines gender differences in law, the courts, voting, political involvement, approaches to political power, and violence. (Same as PS 3033). METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.1001 24-CHARACTER ABBREVIATION: Gender and Politics Effective: Spring 2006

BUSINESS & INDUSTRY

ADD	BL 3233	Business Law for Resorts. (3). (Prerequisites: Junior standing). Three hours lecture. A survey of state and federal business law and ethical issues as they relate to legislation concerning resorts, conventions, and casinos. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 22.0000 24-CHARACTER ABBREVIATION: Business Law for Results Effective: Spring 2006
ADD	MKT 3513	Marketing Internship. (3). (Prerequisites: Junior standing and MKT 3013). Students will work with an approved business as an intern. METHOD OF INSTRUCTION: E C.I.P. NUMBER: 52.1906 24-CHARACTER ABBREVIATION: Marketing Internship Effective: Spring 2006
ADD	MKT 4513	Resort-Convention Marketing. (3). (Prerequisite: MKT 3013). Three hours lecture. A study of marketing problems unique to resorts and convention centers. Special emphasis is placed on quantitative techniques for pricing, services, event booking, and positioning. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 52.1401 24-CHARACTER ABBREVIATION: Resort-Convention Mktg Effective: Spring 2006

EDUCATION

MODIFY FROM:	EDF 3423	Exploring Diversity Through Writing. (3). (Prerequisite: Admission to Teacher Education. Corequisite: EDF 3333). Using writing to explore issues of diversity in the classroom. Creating a learning community for diverse learners.
TO:	EDF 3423	Exploring Diversity Through Writing. (3). (Prerequisite: Admission to Teacher Education.) Using writing to explore issues of diversity in the classroom. Creating a learning community for diverse learners. Effective: Spring 2006
MODIFY FROM:	TKT 3001	Practicum in Vocational Education. (1). Observation of secondary and high school students and participation in classroom activities prior to the directed teaching.
TO:	TKT 3001	Practicum in Technology Teacher Education. (1). One hour practicum. Field based observation of secondary technology students and participation in classroom activities. Effective: Spring 2006
MODIFY FROM:	TKT 8200	Internship in Vocational Education and Technology. (1-6). Opportunity under supervision of regular university staff for directed experience and reporting in the major area of interest. One-six credit hours may be earned.
TO:	TKT 8200	Internship in Career and Technology Education. (1-6). Opportunity under supervision of regular university staff for directed experience and reporting in the major area of interest. One-six credit hours may be earned. Effective: Spring 2006

MODIFY FROM:	TKT 8263	Philosophy and Administration of Vocational Education. (3). Three hours lecture. Development of well-rounded, comprehensive programs suitable to various types of schools and communities; correlation with other school programs.
TO:	TKT 8263	Philosophy and Administration of Career and Technology Education. (3). Three hours lecture. The development of competencies needed in the leadership, administration, management, and supervision of local programs in technology, and career and technical education.
Effective: Spring 2006		

ENGINEERING

MODIFY FROM:	ASE 3123	Static Stability and Control. (3). (Prerequisites: ASE 2013, EM 2433, credit or registration in EM 3413). Three hours lecture. Longitudinal, directional, and lateral static stability and control; related aerodynamics; maneuvering flight; introduction to dynamic stability and control analysis methods; general equation of unsteady motion.
TO:	ASE 3123	Aircraft Attitude Dynamics. (3). (Prerequisites: ASE 2013, EM 2433, credit or registration in EM 3413). Three hours lecture. Longitudinal, directional, and lateral static stability and control; related aerodynamics; maneuvering flight; introduction to dynamic stability and control analysis methods; general equation of unsteady motion.
Effective: Spring 2006		

MODIFY FROM: ASE 3213 TO: ASE 3213	Aircraft Structures I. (3). (Prerequisite: EM 3213). Three hours lecture. Introduction to structural materials and loads. Deflection analysis using energy methods, flexibility-based matrix method, and the finite element method. Influence of design on deflection and vice versa. Mechanics of Deformable Structures. (3). (Prerequisite: EM 3213). Three hours lecture. Introduction to structural materials and loads. Deflection analysis using energy methods, flexibility-based matrix method, and finite element methods. Influence of design on deflection and vice-versa. Effective: Spring 2006
MODIFY FROM: ASE 3223 TO: ASE 3223	Aircraft Structures II. (3). (Prerequisite: EM 3213). Three hours lecture. Stress analysis of elastic and inelastic structures under different loading conditions. Shear flow distribution in thin-wall structures. Influence of design on stress and shear flow distributions. Aerospace Structural Analysis. (3). (Prerequisite: EM 3213). Three hours lecture. Stress analysis of elastic and inelastic structures under different loading conditions. Shear-flow distribution in thin-wall structures. Influence of design on stress and shear-flow distributions. Effective: Spring 2006
ADD: ASE 3823	Spacecraft Attitude Dynamics. (3). (Prerequisite: ASE 3813). Three hours lecture. Motion of spacecraft about center of gravity. Rigid body dynamics and rotational kinematics. Mission pointing requirements and design of the attitude determination and control system. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0201 24-CHARACTER ABBREVIATION: Space Attitude Dynamics Effective: Spring 2006

MODIFY FROM:	ASE 4123	Dynamic Stability and Control. (3). (Prerequisite: ASE 3123). Three hours lecture. Methods of dynamic analysis; stability of steady flight; response to actuation of the controls (open loop); closed-loop control; human pilots and handling qualities.
TO:	ASE 4123	Aerospace Controls. (3). (Prerequisite: ASE 3123 or ASE 382). Three hours lecture. Methods of dynamic analysis; stability of steady flight; response to actuation of the controls (open loop); closed-loop control; human crew/vehicle interactions. Effective: Spring 2006
MODIFY FROM:	ASE 4143	Astrodynamics I. (3). (Prerequisites: EM 2433, MA 3253). Three hours lecture. Particle mechanics; Keplerian mechanics; geometry of spatial orbits; orbit determination; orbits determined from relative velocity; elements of analytical dynamics.
TO:	ASE 4143	Introduction to Orbital Mechanics. (3). (Prerequisites: EM 2433, MA 3253). Three hours lecture. Two-body orbital mechanics; geometry of spatial orbits; fundamental orbit determination; orbital maneuvers; introduction to rendezvous and interplanetary trajectories. Effective: Spring 2006
MODIFY FROM:	ASE 4243/6243	Astrodynamics II. (3). (Prerequisite: ASE 4143). Three hours lecture. Orbital mechanics, orbit determination, perturbations and numerical integration. Global positioning system, launch performance and optimization.
TO:	ASE 4243/6243	Advanced Orbital Mechanics. (3). (Prerequisite: ASE 3813). Three hours lecture. Orbital mechanics; perturbations and numerical integration. Global positioning system, launch performance and optimization. Effective: Spring 2006

MODIFY FROM: ASE 4413 TO: ASE 4413	Aerospace Propulsion. (3). (Prerequisites: ASE 3333 and ASE 4343). Three hours lecture. Aerothermodynamics of aircraft and rocket engines; propellers; nozzles; engines; turbines; compressors; diffusers; liquid propellants, solid propellants, rocket engine design. Aircraft Propulsion. (3). (Prerequisites: ASE 3333 and ASE 4343). Three hours lecture. Aerothermodynamics of aircraft jet engines and gas turbine engine components; nozzles; turbines; compressors; diffusers; introduction to piston engines; propellers and propeller performance estimation. Effective: Spring 2006
ADD ASE 4443	Spacecraft Propulsion. (3). (Prerequisites: ASE 3333 and ASE 4343). Three hours lecture. Nozzles and thermochemistry. Components, design and performance of liquid propellant, solid propellant, hybrid and electric rocket propulsion systems. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0201 24-CHARACTER ABBREVIATION: Spacecraft Design I Effective: Spring 2006
MODIFY FROM: ASE 4513 TO: ASE 4513	Aerospace Vehicle Design I. (3). (Prerequisites: ASE 3123, ASE 3313, ASE 3223). Two hours lecture. Three hours laboratory. Introduction to the principles and techniques of aerospace vehicle design. Introduction to systems engineering and requirements analysis; design optimization; layout; weight; performance. Aircraft Design I. (3). (Prerequisites: ASE 3123, ASE 3313, ASE 3223). Two hours lecture. Three hours laboratory. Introduction to the principles and techniques of aircraft design. Introduction to systems engineering and requirement analysis; design optimization; layout; weight; performance. Effective: Spring 2006

MODIFY FROM: ASE 4523 TO: ASE 4523	Aerospace Vehicle Design II. (3). (Prerequisite: ASE 4513). One hour lecture. Five hours laboratory. Continuation of ASE 4513. Students make use of principles and techniques covered in ASE 4513 to create a design of an aerospace vehicle. Aircraft Design II. (3). (Prerequisite: ASE 4513). One hour lecture. Five hours laboratory. Continuation of ASE 4513. Students make use of principles and techniques covered in ASE 4513 to create a design of an aircraft. Effective: Spring 2006
ADD ASE 4533	Spacecraft Design I. (3). (Prerequisites: ASE 3223, ASE 3813, ASE 3823). Two hours lecture. Three hours laboratory. Introduction to the principles and techniques of spacecraft and mission design. Systems engineering and requirement analysis, spacecraft system characteristics and mission phases. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0201 24-CHARACTER ABBREVIATION: Spacecraft Design I Effective: Spring 2006
AD ASE 4543	Spacecraft Design II. (3). (Prerequisite: ASE 4533). One hour lecture. Five hours laboratory. Continuation of ASE 4533, Spacecraft Design I. Application of design concepts and principles. Concentration on systems engineering, detail design, life cycle cost, manufacturing and operations. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0201 24-CHARACTER ABBREVIATION: Spacecraft Design II Effective: Spring 2007

MODIFY FROM: ASE 4623 TO: ASE 4623	Aircraft Structures III. (3). (Prerequisite: ASE 3223). Three hours lecture. Principles of design and manufacture of aircraft structures. General theories of stability and failure with applications. Design optimization, fabrication, and testing of structural members. Aerospace Structural Design. (3). (Prerequisite: ASE 3223). Three hours lecture. Principles of design and manufacture of aerospace structures. General theories of stability and failure with applications. Design optimization, fabrication, and testing of structural members. Effective: Spring 2006
ADD CE 4323/6323	Failure of Engineering Methods. (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. (Same as ME 4123/6123). METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.1901 24-CHARACTER ABBREVIATION: Failure of Eng. Mat'l Effective: Spring 2006
ADD EG 3113	CATIA Solid Modeling. (3). Three hour lecture. Design, assembly, and finite element analysis utilizing CATIA, a state-of-the-art 3-D solid modeling package. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 1448.0101 24-CHARACTER ABBREVIATION: CATIA Solid Modeling Effective: Spring 2006

MODIFY FROM: ME 4123/6123	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.
TO: ME 4123/6123	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. (Same as CE 4323/6323).
Effective: Spring 2006	

VETERINARY MEDICINE

ADD CVM 8101	Case Studies in Scientific Research Ethics. (1). One hour seminar. Practical application of research ethics using case scenarios to direct discussions on data ownership, plagiarism, authorship, conflict of interest, and other regulatory compliance related issues. (Same as PHI 8101). METHOD OF INSTRUCTION: S C.I.P. NUMBER: 51.2501 24-CHARACTER ABBREVIATION: Case Studies Res Ethics Effective: Spring 2006
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DEGREE PROPOSALS

MODIFY College of Engineering Bachelor of Science in Aerospace Engineering -Aeronautics concentration	Introduction of concentrations. Effective: Spring 2006
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MODIFY	College of Engineering Bachelor of Science in Aerospace Engineering -Astronautics concentration	Introduction of concentrations. Effective: Spring 2006
MODIFY	College of Engineering Bachelor of Science in Civil Engineering	Change in curriculum from 131 hours to 130 hours as per IHL mandate. Effective: Spring 2006
MODIFY	College of Business and Industry Bachelor of Business Administration in BUSI -Resort and Convention Concentration	Introduction of concentration. Effective: Spring 2006
MODIFY	College of Forest Resources Bachelor of Science in Forest Products	Clarification of 124 curriculum. Effective: Spring 2006

CORE COURSE PROPOSALS

Humanities Arts and Sciences	HI 1313 East Asian Civilizations to 1300
Humanities Arts and Sciences	HI 1323 East Asian Civilizations since 1300

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.