



Mississippi State UNIVERSITY

UNIVERSITY COMMITTEE
ON COURSES & CURRICULA
Lloyd-Ricks Annex — North End
Mailstop 9699
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MEMORANDUM

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JUN 17 2004
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June 14, 2004

TO: Academic Deans Council
FROM: Dr. Keith L. Belli *KLB*
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 June 30, 2004 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.

UCCC

uccc@ra.msstate.edu E-mail

AGRICULTURAL AND LIFE SCIENCES

MODIFY FROM: PO 4323/6323	Management of Broiler Breeders. (3). Three hours lecture. Farm layout, housing, equipment, management of laying and breeding flocks; rearing of pullets, feeding applications; other economic factors relating to efficient production.
TO: PO 4324/6324	Avian Reproduction. (4). Three hours lecture. Two hours laboratory. Principles of avian reproductive physiology and applications in poultry management to maximize reproductive performance. Reproductive characteristics of several bird species are included. 24-CHARACTER ABBREVIATION: Avian Reproduction Effective: Fall 2004
MODIFY FROM: PO 4833/6833	Poultry Anatomy. (3). Two hours lecture. Two hours laboratory. Anatomy of the fowl with emphasis on morphology and organization of the avian body structures.
TO: PO 4833/6833	Avian Anatomy. (3). Two hours lecture. Two hours laboratory. Anatomy of the fowl with emphasis on morphology and organization of the avian body structures. 24-CHARACTER ABBREVIATION: Avian Anatomy Effective: Fall 2004

<p>MODIFY FROM: PO 4843/6843</p> <p>TO: PO 4843/6843</p>	<p>Poultry Physiology. (3). (Prerequisites: PO 4833/6833 or consent of instructor). Two hours lecture. Two hours laboratory. Physiology of the fowl with emphasis on integration of body functions. (Same as PHY 6843)</p> <p>Avian Physiology. (3). (Prerequisites: PO 4833/6833 or consent of instructor). Two hours lecture. Two hours laboratory. Physiology of the fowl with emphasis on integration of avian body functions. (Same as PHY 6843)</p> <p>24-CHARACTER ABBREVIATION: Avian Physiology</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: PSS 8343</p> <p>TO: PSS 8343</p>	<p>Soil Physics. (3). (Prerequisite: PSS 4613/6613 or consent of instructor). Three hours lecture. Fall semester, off-numbered years. The fundamental principles and laws which govern the soil as a physical systems with special emphasis on transport phenomena and the physical characteristics of soils.</p> <p>Modeling Watershed Hydrology. (3). (Prerequisite: PSS 3301/3303 or CE 4513 or consent of instructor.) Two hours lecture. Three hours laboratory. Simulation modeling of watershed hydrology and point/non-point source pollution, including: data availability and quality, calibration/verification, sensitivity analysis, TMDL calculations, and other modeling issues.</p> <p>24-CHARACTER ABBREVIATION: Model Watershed Hydrology</p> <p>Effective: Spring 2005</p>

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ARCHITECTURE

ADD	ARC 4114/6114	<p>Professional Practice Strategies. (4). Four hours lecture. Exploration of the students career goals relative to emerging technology impact and design/architectural practice trends.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 04.0201 24-CHARACTER ABBREVIATION: Profession Practice Strat</p> <p>Effective: Fall 2004</p>
ADD	ARC 4152/6152	<p>Digital Design 1 Laboratory. (2) (Prerequisite: Undergraduate-permission of instructor; Graduate-none). Four hours laboratory. Laboratory exploration of digital input and output devices concentrating on conceptual design, design development, and manufacturing/construction CAD/CAM processes using automated machines and devices.</p> <p>METHOD OF INSTRUCTION: L C.I.P. NUMBER: 04.0201 24-CHARACTER ABBREVIATION: Digital Design 1 Lab</p> <p>Effective: Fall 2004</p>
ADD	ARC 4162/6162	<p>Digital Design 2 Laboratory. (2). (Prerequisite: ARC 4152/6152). Four hours laboratory. Advanced laboratory exploration of digital input and output devices concentrating on conceptual design, design development, and manufacturing/construction CAD/CAM processes using automated machines and devices.</p> <p>METHOD OF INSTRUCTION: L C.I.P. NUMBER: 04.0201 24-CHARACTER ABBREVIATION: Digital Design 2 Lab</p> <p>Effective: Fall 2004</p>

<p>ADD ARC 4633/6633</p>	<p>Architecture and Virtual Spaces. (3). Three hours lecture. Exploration of physical and virtual worlds from a theoretical, technical, communication, and design perspective.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 04.0201 24-CHARACTER ABBREVIATION: Arc & Virtual Spaces</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: ARC 8113</p> <p>TO: ARC 8114</p>	<p>Digital Design 1. (3) One hour lecture. Four hours laboratory. Application of high-performance computers and existing software in the design environment. Exploration of design processes through studies of modeling, motion, and lighting.</p> <p>Digital Design 1. (4). Four hours lecture. Exploration of digital input and output devices concentrating on conceptual design/visualization processes using 3D/4D software and augmenting hardware devices.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: ARC 8123</p> <p>TO: ARC 8124</p>	<p>Digital Design II. (3) (Prerequisite: ARC 8113) One hour lecture. Four hours laboratory. Customization of 3D-animation software. Emphasis on procedural modularity and automation to reduce the tedium of the modeling process and increase attention given in design.</p> <p>Digital Design 2. (4) (Prerequisite: ARC 8114). Four hours lecture. Exploration of digital input and output devices concentrating on conceptual design, design development, and manufacturing/construction CAD/CAM processes using automated machines and devices.</p> <p>Effective: Fall 2004</p>

ADD	ARC 8224	<p>Research and Writing in Architecture. (4). Four hours lecture. Provides the student with a general grounding in the process of research, problem identification, writing, and development of a formal argument in design and architecture.</p> <p>METHOD OF INSTRUCTION: C</p> <p>C.I.P. NUMBER: 04.0201</p> <p>24-CHARACTER ABBREVIATION: Arc Research & Writing</p> <p>Effective: Fall 2004</p>
MODIFY FROM:	ARC 8443	<p>Interactive Multimedia Authoring. (3) (Prerequisite: ARC 8113, ARC 8123, ARC 8533). One hour lecture. Three hours laboratory. Study of techniques and methods of planning, writing, mastering, and debugging multimedia titles.</p>
TO:	ARC 8444	<p>Interactive Media. (4) (Prerequisite: ARC 6633). Three hours lecture. Two hours laboratory. Exploration of media and interaction design solutions through case studies and design exercises using emerging technologies and congruent design concepts.</p> <p>24-CHARACTER ABBREVIATION: Interactive Media</p> <p>Effective: Fall 2004</p>

ARTS AND SCIENCES

MODIFY FROM:	CH 1043	<p>General Chemistry. (3) Three hours lecture. The nature of chemistry and its applications. Designed for the student that will not take upper division chemistry courses. CH 1043 will satisfy chemistry prerequisites for CH 1213.</p> <p>Survey of Chemistry I. (3) Three hours lecture. The nature of chemistry and its applications. For non-chemistry majors.</p>
TO:	CH 1043	<p>24-CHARACTER ABBREVIATION: Survey of Chemistry I</p> <p>Effective: Fall 2004</p>
MODIFY FROM:	CH 1053	<p>General Chemistry. (3) Three hours lecture. The nature of chemistry and its applications. Design for the student that will not take upper division chemistry courses.</p>
TO:	CH 1053	<p>Survey of Chemistry II. (Prerequisite: CH 1043). Three hours lecture. The nature of chemistry and its applications. For non-chemistry majors.</p> <p>24-CHARACTER ABBREVIATION: Survey of Chemistry II</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CH 1211</p> <p>TO: CH 1211</p>	<p>Investigations in Chemistry. (1). Three hours laboratory. Accompanies CH 1213. Student must have prior credit or concurrent enrollment in corresponding lecture course. CH 1211 must be completed before student may enroll in CH 1221. Selected experiments to illustrate the fundamentals of chemistry.</p> <p>Investigations in Chemistry I. (1). (Prerequisite: Prior credit or concurrent enrollment in CH 1213). Three hours laboratory. Selected experiments to illustrate fundamentals of chemistry. Accompanies CH 1213.</p> <p>24-CHARACTER ABBREVIATION: Invst Chemistry I</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CH 1213</p> <p>TO: CH 1213</p>	<p>Fundamentals of Chemistry. (3). (Prerequisites: Placement exam or grade of C or better in CH 1043 and MA 1313 or concurrent enrollment in MA 1313, 1323, or 1713). Three hours lecture. The principles of atomic and molecular structure, energetics, dynamics, and synthesis as related to chemical systems. Designed as preparation for upper division chemistry courses. Offered each semester.</p> <p>Chemistry I. (3). (Prerequisites: Placement exam or alternatively a minimum grade of B in CH 1043 and satisfying prerequisites for MA 1313). Three hours lecture. The principles of atomic and molecular structure, energetics, dynamics, and synthesis as related to chemical systems. Offered each semester.</p> <p>24-CHARACTER ABBREVIATION: Chemistry I</p> <p>Effective: Fall 2004</p>

MODIFY FROM: CH 1221	<p>Investigations in Chemistry. (1). Three hours laboratory. Accompanies CH 1223. Student must have prior credit or concurrent enrollment in corresponding lecture course. CH 1211 must be completed before student may enroll in CH 1221. Selected experiments to illustrate the fundamentals of chemistry.</p>
TO: CH 1221	<p>Investigations in Chemistry II. (1). (Prerequisites: CH 1211 and prior credit or concurrent enrollment in CH 1223). Three hours laboratory. Selected experiments to illustrate the fundamentals of chemistry. Accompanies CH 1223.</p> <p>24-CHARACTER ABBREVIATION: Invst Chemistry II</p> <p>Effective: Fall 2004</p>
MODIFY FROM: CH 1223	<p>Fundamentals of Chemistry. (3). (Prerequisites: CH 1213). Three hours lecture. The principles of atomic and molecular structure, energetics, dynamics, and synthesis as related to chemical systems. Designed as preparation for upper division chemistry courses. Offered each semester.</p>
TO: CH 1223	<p>Chemistry II. (3). (Prerequisite: CH 1213). Three hours lecture. The principles of atomic and molecular structure, energetics, dynamics, and synthesis as related to chemical systems. Offered each semester.</p> <p>24-CHARACTER ABBREVIATION: Chemistry II</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CH 2313</p> <p>TO: CH 2313</p>	<p>Quantitative Inorganic Analysis. (3). (Prerequisites: CH 1221 and CH 1223). Two hours lecture. Three hours laboratory. An introductory course in quantitative methods of inorganic chemistry with an abbreviated laboratory including gravimetric, titrimetric and colorimetric methods.</p> <p>Introduction to Analytical Chemistry. (3). (Prerequisite: CH 1221 and CH 1223). Two hours lecture. Three hours laboratory. An introduction to quantitative methods in analytical chemistry and an abbreviated laboratory including titrimetric, spectrometric, separations, and electrochemical methods. For non-chemistry majors.</p> <p>24-CHARACTER ABBREVIATION: Intro Analytical Chem</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CH 2314</p> <p>TO: CH 2314</p>	<p>Quantitative Inorganic Analysis. (4). (Prerequisites: CH 1221 and CH 1223). Two hours lecture. Six hours laboratory. Introduction to fundamental techniques and principles of the quantitative methods of inorganic chemistry. Gravimetric, titrimetric and calorimetric methods.</p> <p>Analytical Chemistry I. (4). (Prerequisites: CH 1221 and CH 1223). Two hours lecture. Six hours laboratory. The principles of quantitative analytical chemistry and a laboratory including gravimetric, titrimetric, spectrometric, separations, and electrochemical methods. Required for chemistry majors.</p> <p>24-CHARACTER ABBREVIATION: Analytical Chemistry I</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CH 4351/6351</p> <p>TO: CH 4351/6351</p>	<p>Instrumental Methods of Analysis Laboratory. (1). (Prerequisites: Concurrent registration in CH 4353/6353). Three hours laboratory. Laboratory course to accompany CH 4353/6353.</p> <p>Analytical Chemistry Laboratory II. (1). (Prerequisite: Concurrent registration in CH 4353/6353). Three hours laboratory. Laboratory course to accompany CH 4353/6353.</p> <p>24-CHARACTER ABBREVIATION: Analytical Chem Lab II</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CH 4353/6353</p> <p>TO: CH 4353/6353</p>	<p>Instrumental Analysis. (3). (Prerequisites: CH 4423/6423). Three hours lecture. Three hours laboratory. A study of capabilities and principles of operation of optical and electrical instruments, including X-ran diffraction.</p> <p>Analytical Chemistry II. (3). (Prerequisites: CH 4423/6423 and either CH 2313 or CH 2314). Three hours lecture. Three hours laboratory. A study of instrument-based methods in analytical chemistry.</p> <p>24-CHARACTER ABBREVIATION: Analytical Chemistry II</p> <p>Effective: Fall 2004</p>

MODIFY FROM: CH 4411/6411	Physical Chemistry Laboratory. (1). (Prerequisite: CH 4413/6413). Three hours laboratory. Laboratory course to accompany CH 4413/6413.
TO: CH 4411/6411	Physical Chemistry Laboratory I. (1). (Prerequisite: CH 4413/6413). Three hours laboratory. Laboratory course to accompany CH 4413/6413. 24-CHARACTER ABBREVIATION: Physical Chem Lab I Effective: Fall 2004
MODIFY FROM: CH 4413/6413	Physical Chemistry. (3). (Prerequisites: CH 1223, PH 2213, and MA 2733). Three hours lecture. A study of the quantitative and theoretical properties of elements in their various states of combination. Topics include chemical thermodynamics and kinetics, solutions of nonelectrolytes and electrolytes, solid state, surface chemistry, macromolecules, photochemistry, and statistical thermodynamics.
TO: CH 4413/6413	Physical Chemistry I. (3). (Prerequisites: 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. 24-CHARACTER ABBREVIATION: Physical Chemistry I Effective: Fall 2004

<p>MODIFY FROM: CH 4421/6421</p> <p>TO: CH 4421/6421</p>	<p>Physical Chemistry Laboratory. (1). (Prerequisite: CH 4413/6513). Three hours laboratory. Laboratory course to accompany CH 4423/6423.</p> <p>Physical Chemistry Laboratory II. (1). (Prerequisites: CH 4413/6413, CH 4411/6411). Three hours laboratory. Laboratory course to accompany CH 4423/6423.</p> <p>24-CHARACTER ABBREVIATION: Physical Chem Lab II</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CH 4423/6423</p> <p>TO: CH 4423/6423</p>	<p>Physical Chemistry. (3). (Prerequisites: CH 4413/6413). Three hours lecture. A study of the quantitative and theoretical properties of elements in their various states of combination. Topics include chemical thermodynamics and kinetics, solutions of nonelectrolytes and electrolytes, solid state, surface chemistry, macromolecules, photochemistry, and statistical thermodynamics.</p> <p>Physical Chemistry II. (3). (Prerequisite: CH 4413/6413). Three hours lecture. Topics include solid state, surface chemistry, macromolecules, quantum mechanics, spectroscopy, and statistical thermodynamics.</p> <p>24-CHARACTER ABBREVIATION: Physical Chemistry II</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CH 4511/6511</p> <p>TO: CH 4511/6511</p>	<p>Organic Chemistry Laboratory. (1). (Prerequisites: CH 1221 and CH 1223). Three hours laboratory. A laboratory course to accompany CH 4513/6513 for premedical, biological, and chemical engineering students.</p> <p>Organic Chemistry Laboratory I. (1). (Prerequisites: CH 1221 and CH 1223). Three hours laboratory. A laboratory course to accompany CH 4513/6513 for premedical, biological, and chemical engineering students.</p> <p>24-CHARACTER ABBREVIATION: Organic Chem Lab I</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CH 4513/6513</p> <p>TO: CH 4513/6513</p>	<p>Organic Chemistry. (3). (Prerequisite: CH 1223). Three hours lecture. A systematic study of organic chemistry including aliphatic, aromatic, and heterocyclic compounds for majors in chemistry, chemical engineering, premedical, and biological sciences.</p> <p>Organic Chemistry I. (3). (Prerequisite: CH 1223). Three hours lecture. A systematic study of organic chemistry including aliphatic, aromatic, and heterocyclic compounds for majors in chemistry, chemical engineering, premedical, and biological sciences.</p> <p>24-CHARACTER ABBREVIATION Organic Chemistry I</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CH 4521/6521</p> <p>TO: CH 4521/6521</p>	<p>Organic Chemistry Laboratory. (1). (Prerequisites: CH 4511/6511 and CH 4513/6513). Three hours laboratory. A laboratory course to accompany CH 4523/6523 for premedical, biological, and chemical engineering students.</p> <p>Organic Chemistry Laboratory II. (1). (Prerequisites: CH 4511/6511 and CH 4513/6513). Three hours laboratory. A laboratory course to accompany CH 4523/6523 for premedical, biological, and chemical engineering students.</p> <p>24-CHARACTER ABBREVIATION: Organic Chem Lab II</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CH 4523/6523</p> <p>TO: CH 4523/6523</p>	<p>Organic Chemistry. (3). (Prerequisite: CH 4513/6513). Three hours lecture. A systematic study of organic chemistry including aliphatic, aromatic, and heterocyclic compounds for majors in chemistry, chemical engineering, premedical, and biological sciences.</p> <p>Organic Chemistry II. (3). (Prerequisite: CH 4513/6513). Three hours lecture. A systematic study of organic chemistry including aliphatic, aromatic, and heterocyclic compounds for majors in chemistry, chemical engineering, premedical, and biological sciences.</p> <p>24-CHARACTER ABBREVIATION: Organic Chemistry II</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: EN 3413</p> <p>TO: EN 3414</p>	<p>Advanced Composition. (3). (Prerequisite: Twelve hours of English). Three hours lecture. An advanced expository writing course and general introduction to research methods and materials in language and literature.</p> <p>Advanced Composition. (4). (Prerequisite: Twelve hours of English). Four hours lecture. An advanced expository writing course and general introduction to research methods and materials in language and literature.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: MA 4733/6733</p> <p>TO: MA 4733/6733</p>	<p>Linear Programming I. (3). (Prerequisites: CS 1213 and MA 3113). General theory of linear programming and its application; simplex algorithm, revised simplex algorithm, duality, sensitivity transportation algorithm, assignment algorithm, network analysis and goal programming. (Same as IE 4733/6733 and CS 4013/6013).</p> <p>Linear Programming. (3). (Prerequisite: MA 3113). Three hours lecture. Theory and application of linear programming; simplex algorithm, revised simplex algorithm, duality and sensitivity analysis, transportation and assignment problem algorithms, integer and goal programming. (Same as IE 4733/6733).</p> <p>24-CHARACTER ABBREVIATION: Linear Programming</p> <p>Effective: Fall 2004</p>

ADD: SO 4423/6423	Health and Society. (3). (Prerequisite: 3 hours in sociology). Three hours lecture. Examines health and the health care structure of the United States as it relates to our culture, norms and social institutions. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.1101 24-CHARACTER ABBREVIATION: Health & Society Effective: Spring 2005
ADD SO 4433/6433	Sociology of Death and Dying. (3). (Prerequisite: 3 hours in sociology). Three hours lecture. Examines death as a social event, the social nature of death, relationships at the end of life, and social structural impacts on death and dying. METHOD OF INSTRUCTION: C C.I.P. NUMBER: 45.1101 24-CHARACTER ABBREVIATION: Soc of Death/Dying Effective: Spring 2005

MODIFY FROM:	FIN 4011	Banking Internship. (1). (Prerequisite: Approval of Department). Banking topics examined by students during work semester.
TO:	FIN 4011	Finance Internship Seminar. (1). (Prerequisite: Approval of Department). Examination of topics related to developing a successful career in finance during a work semester. 24-CHARACTER ABBREVIATION: Finance Internship Sem Effective: Summer 2004
MODIFY FROM:	FIN 4021	Corporate Finance Internship. (1). (Prerequisite: Approval of Department). Corporate Finance topics examined by students during work semester.
TO:	FIN 4021	Finance Career Planning Seminar. (1). (Prerequisite: Approval of Department). Exploration and examination of issues relating to successful careers in finance. Open only to students who have not completed a work semester. 24-CHARACTER ABBREVIATION: Finance Career Plan Sem Effective: Summer 2004
DELETE	FIN 4031	Financial Services Internship. (1). (Prerequisite: Approval of Department). Financial services topics examined by students during work semester. Effective: Summer 2004
DELETE	FIN 4041	Financial Communications Internship. (1). (Prerequisite: Approval of Department). Financial communications topics examined by students during work semester. Effective: Summer 2004

EDUCATION

ADD	COE 8573	<p>College Counseling Services. (3). Three hours lecture. Counseling, prevention and student development services on the university and community college campus.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 13.1101 24-CHARACTER ABBREVIATION: College Counseling Serv</p> <p>Effective: Summer 2004</p>
ADD	COE 9043	<p>Advanced Group Work and Systems. (3). (Prerequisites: COE 8023, COE 8013, COE 8043, and Educational Specialist or Doctoral standing, or consent of instructor). One hour lecture. Four hours laboratory. Advanced studies in group counseling theory, systems theory, group leadership, and standards of training and practice for group workers.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 13.1101 24-CHARACTER ABBREVIATION: Adv Group Wk & Sys</p> <p>Effective: Spring 2005</p>

ADD	COE 9053	<p>Advanced Multicultural Counseling. (3). (Prerequisites: COE 8013, COE 8023, COE 8043, COE 8053, COE 8063 or an equivalent course, COE 8073 or an equivalent course, COE 8730, Educational Specialist or Doctoral standing or consent of the instructor). Three hours lecture. The course emphasizes advanced multicultural knowledge, skill development, and research competencies for counselors.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 13.1101 24-CHARACTER ABBREVIATION: Adv Multicul Coun</p> <p>Effective: Summer 2004</p>
MODIFY FROM: TO:	COE 8083 COE 9083	<p>Assessment Techniques in Counseling. (3). Three hours lecture. Techniques and instruemtns available for the assessment of individuals.</p> <p>Advanced Assessment Techniques in Counseling. (3). (Prerequisites: COE 8063 and EPY 8124 or equivalent courses; Educational Specialist or Doctoral standing or consent of instructor). Advanced knowledge, skill and practice in selecting, administering, scoring, and interpreting personality, behavioral, career, and family assessments.</p> <p>24-CHARACTER ABBREVIATION: Adv Assessment Tech</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: COE 9740</p> <p>TO: COE 9740</p>	<p>Doctoral Internship. (3). (Prerequisite: Consent of department). First supervised field experience for doctoral students.</p> <p>Advanced Doctoral Practicum. (1-9). (Prerequisite: Consent of department). First supervised field experience for doctoral students.</p> <p>24-CHARACTER ABBREVIATION: Advanced Doctoral Prac</p> <p>Effective: Fall 2004</p>
<p>ADD MUA 1710, 2710, 3710</p>	<p>Guitar. (1-2). Variable credit 1 or 2 hours credit: Three hours practice per week per hour of credit. May be repeated for credit.</p> <p>All students of applied music will be given proficiency examinations which will be held at the end of each semester. All Music Majors are required to perform in Student Recital on their major instrument at least once each semester. (Does not apply in the first semester of the freshman year or during the student teaching semester).</p> <p>METHOD OF INSTRUCTION: Q C.I.P. NUMBER: 50.0911 24-CHARACTER ABBREVIATION: Guitar</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: TKT 4713/6713</p> <p>TO: TKT 47413/6713</p>	<p>Hypermedia for Instruction. (3). A hands-on study of object-oriented programming applied to instruction, using HyperCard as a tool.</p> <p>Authoring for Instruction. (3). An introduction to the application of authoring languages for instructional purposes.</p> <p>24-CHARACTER ABBREVIATION: Authoring for Instr</p> <p>Effective: Summer 2004</p>
<p>ADD TKT 4803/6803</p>	<p>Integrating Technology for Meaningful Learning. (3). Three hours lecture. Understanding the process of integrating technology into instructional practice. Research-based methods for the integration of technology to enhance learning.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 13.1321 24-CHARACTER ABBREVIATION: Integ Tech for Learn</p> <p>Effective: Summer 2004</p>
<p>ADD TKT 4813/6813</p>	<p>Introduction to Instructional Systems. (3). Three hours lecture. An introduction to the field of Instructional Systems and the practice of scholarly writing in the field.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 13.1321 24-CHARACTER ABBREVIATION: Intro to Inst Syst</p> <p>Effective: Summer 2004</p>

<p>MODIFY FROM: TKT 8213</p> <p>TO: TKT 8213</p>	<p>Content and Method of Teaching in Vocational Education. (3). Three hours lecture. The content of various types of courses, in trade, industrial, and distributive education; instruction in appropriate techniques and methods.</p> <p>Content and Methods of Teaching in Career and Technical Education. (3). Three hours lecture. The content of various types of courses in career and technical education; instruction in the appropriate techniques and methods.</p> <p>24-CHARACTER ABBREVIATION: Cont/Meth Career & Tech</p> <p>Effective: Summer 2004</p>
<p>MODIFY FROM: TKT 8703</p> <p>TO: TKT 8703</p>	<p>Emerging Technologies. (3). Three hours lecture. An examination of modern technologies which shape instructional delivery in a dynamic society.</p> <p>Trends and Issues in Instructional Systems. (3). Three hours lecture. An examination of the trends and issues in instructional environments and the related current and emerging instructional systems.</p> <p>24-CHARACTER ABBREVIATION: Trnds & Iss in Inst Sys</p> <p>Effective: Summer 2004</p>

ADD	TKT 8753	<p>Technology Issues for School Administrators. (3). Three hours lecture. Investigates the trends and issues in instructional systems that impact school administrators.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 13.0401 24-CHARACTER ABBREVIATION: Tech Issues School Admin</p> <p>Effective: Summer 2004</p>
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ENGINEERING

MODIFY FROM:	CE 1003	<p>Introduction to Civil Engineering. (3). Three hours lecture. Introduction to the Civil Engineering profession, career opportunities, and curriculum. Engineering problem-solving, basic computing skills and tools used in Civil Engineering. Oral, graphic and written communications.</p>
TO:	CE 1001	<p>Introduction to Civil Engineering. (3). Three hours laboratory. Introduction to the Civil Engineering profession. Ethics. Engineering problem-solving, basic computing skills and tools used in Civil Engineering. Engineering communications.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CE 2214</p> <p>TO: CE 2213</p>	<p>Surveying. (4). (Prerequisite: Sophomore standing; corequisite CS 1213, 1233, or 1253 or equivalent). Three hours lecture. Four hours field and problem work. Fundamentals of field measurements. Theory, selection, and use of surveying instruments; theories used in adjustment of surveys.</p> <p>Surveying. (3). (Prerequisite: Credit or enrollment in CE 1001 or minimum grade C in ABE 2873 (ABE students only)). Two hours lecture. Four hours field and problem work. Fundamentals of field measurements. Theory, selection, and use of surveying instruments; theories used in adjustment of surveys.</p> <p>Effective: Fall 2004</p>
<p>ADD CE 2803</p>	<p>Environmental Engineering Issues. (3). (Prerequisite: Grade of C or better in CH 1223). Three hours lecture. An overview of the scientific, social and legal issues impacting environmental management and protection in the United States.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0801 24-CHARACTER ABBREVIATION: Environ Engr Issues</p> <p>Effective: Fall 2004</p>
<p>MODIFY CE 3113</p>	<p>Prerequisite Change Only</p> <p>Transportation Engineering. (3). (Prerequisite: Credit or current enrollment in CE 2213).</p> <p>Effective: Fall 2004</p>

MODIFY	CE 3414	Prerequisite Change Only Soil Mechanics. (4). (Prerequisite: Credit or current enrollment in EM 3213). Effective: Fall 2004
MODIFY	CE 3603	Prerequisite Change Only Structural Mechanics. (3). (Prerequisite: Grade of C or better in EM 3213). Effective: Fall 2004
MODIFY	CE 4103/6103	Prerequisite Change Only Pavement Design. (3). (Prerequisite: Grade of C or better in CE 3313 and CE 3414). Effective: Fall 2004
MODIFY	CE 4133	Prerequisite Change Only Geometric Design of Highways. (3). (Prerequisites: Grade of C or better in CE 2213 and CE 3113). Effective: Fall 2004
MODIFY	CE 4143/6143	Prerequisite Change Only Traffic Engineering. (3). (Prerequisites: Grade of C or better in CE 3113; credit in ST 3123). Effective: Fall 2004
MODIFY	CE 4233/6233	Prerequisite Change Only Control Surveys. (3). (Prerequisite: Grade of C or better in CE 2213). Effective: Fall 2004

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MODIFY	CE 4243/6243	Prerequisite Change Only Land Surveys. (3). (Prerequisite: Grade of C or better in CE 2213). Effective: Fall 2004
MODIFY	CE 4303/6303	Prerequisite Change Only Stress Analysis. (3). (Prerequisites: Grade of C or better in EM 3213; credit in MA 3253). Effective: Fall 2004
MODIFY	CE 4313/6313	Prerequisite Change Only Advanced Concrete Materials. (3). (Prerequisite: Grade of C or better in CE 3313). Effective: Fall 2004
MODIFY	CE 4433	Prerequisite Change Only Foundations. (3). (Prerequisite: Grade of C or better in CE 3414). Effective: Fall 2004
MODIFY	CE 4513/6513	Prerequisite Change Only Engineering Hydrology. (3). (Prerequisite: Grade of C or better in CE 3803). Effective: Fall 2004
MODIFY	CE 4523/6523	Prerequisite Change Only Open Channel Hydraulics. (3). (Prerequisite: Grade of C or better in 3813). Effective: Fall 2004

MODIFY	CE 4533/6533	Prerequisite Change Only Computational Methods in Water Resources Engineering. (3). (Prerequisite: Grade of C or better in CE 3813). Effective: Fall 2004
MODIFY	CE 4543/6543	Prerequisite Change Only Advanced Reinforced Concrete. (3). (Prerequisites: Grade of C or better in CE 4601 and CE 4633). Effective: Fall 2004
MODIFY	CE 4601	Prerequisite Change Only 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). Effective: Fall 2004
MODIFY	CE 4603/6603	Prerequisite Change Only Indeterminate Structures I. (3). (Prerequisite: Grade of C or better in CE 3603). Effective: Fall 2004
MODIFY	CE 4663/6663	Prerequisite Change Only Matrix Methods of Structural Analysis. (3). (Prerequisite: Grade of C or better in CE 4603/6603, or consent of instructor). Effective: Fall 2004

MODIFY	CE 4673/6673	Prerequisite Change Only Bridge Design. (3). (Prerequisites: Grade of C or better in CE 4601 and CE 4633, or consent of instructor). Effective: Fall 2004
MODIFY	CE 4683/6683	Prerequisite Change Only Advanced Steel Design. (3). (Prerequisites: Grade of C or better in CE 4601 and CE 4623). Effective: Fall 2004
MODIFY	CE 4703/6703	Prerequisite Change Only Construction Engineering and Management. (3). (Prerequisite: Within 30 Civil Engineering hours of graduation). Effective: Fall 2004
MODIFY	CE 4713/6713	Prerequisite Change Only Forensic Engineering. (3). (Prerequisites: Within 30 Civil Engineering hours of graduation and consent of instructor). Effective: Fall 2004
MODIFY	CE 4843/6843	Prerequisite Change Only Advanced Sanitary Analysis. (3). (Prerequisite: Grade of C or better in CE 3803). Effective: Fall 2004

MODIFY	CE 4873/6873	Prerequisite Change Only Water and Wastewater Engineering. (3). (Prerequisite: Grade of C or better in CE 3803). Effective: Fall 2004
MODIFY	CE 8133	Prerequisite Change Only Traffic Flow Theory. (3). (Prerequisite: Grade of C or better in CE 4143/6143). Effective: Fall 2004
MODIFY	CE 8433	Prerequisite Change Only Advanced Foundations. (3). (Prerequisite: Grade of C or better in CE 4433). Effective: Fall 2004
MODIFY	CE 8453	Prerequisite Change Only Physical Properties of Soil. (3). (Prerequisite: Grade of C or better in CE 3414). Effective: Fall 2004
MODIFY	CE 8563	Prerequisite Change Only Groundwater Resource Evaluation. (3). (Prerequisite: Grade of C or better in 3813). Effective: Fall 2004
MODIFY	CE 8613	Prerequisite Change Only Advanced Design in Metals. (3). (Prerequisite: Grade of B or better in CE 4683/6683 or consent of instructor). Effective: Fall 2004

MODIFY	CE 8623	Prerequisite Change Only Theory of Plates and Shells. (3). (Prerequisite: Grade of B or better in CE 3603 or consent of instructor). Effective: Fall 2004
MODIFY	CE 8643	Prerequisite Change Only Prestressed Concrete. (3). (Prerequisites: Grade of C or better in CE 4633 and CE 4601). Effective: Fall 2004
MODIFY	CE 8663	Prerequisite Change Only Advanced Computational Methods in Structural Analysis. (3). (Prerequisite: Grade of B or better in CE 4663/6663 or consent of instructor). Effective: Fall 2004
MODIFY	CE 8693	Prerequisite Change Only Advanced Structural Design. (3). (Prerequisites: Grade of C or better in CE 4623, CE 4633, and CE 4601). Effective: Fall 2004
MODIFY	CE 8843	Prerequisite Change Only Water Treatment Plant Design. (3). (Prerequisite: Grade of B or better in CE 8803). Effective: Fall 2004

MODIFY	CE 8863	Prerequisite Change Only Solid Waste Management. (3). (Prerequisite: Consent of instructor). Effective: Fall 2004
MODIFY	CE 8893	Prerequisite Change Only Industrial Waste Management. (3). (Prerequisite: Consent of instructor). Effective: Fall 2004
MODIFY FROM:	CE 3314	Construction Materials. (4). (Prerequisite: EM 2433, EM 3213, and IE 4613). Three hours lecture. Three hours laboratory. Physical and mechanical properties of basic civil engineering construction materials. Significance of and reasons for testing control and specification of materials.
TO:	CE 3313	Construction Materials. (3). (Prerequisite: Grade of C or better in CE 3414; credit or enrollment in ST 3123). Two hours lecture. Three hours laboratory. Physical and mechanical properties of basic civil engineering construction materials. Significance of and reasons for testing control and specification of materials. Effective: Fall 2004
DELETE	CE 3523	Water Resources Engineering. (3). (Prerequisite: Grade of C or better in EM 3313; co-requisite: CS 1213, 1233, or 1253). Hydraulics of closed conduits; groundwater hydraulics; open channel flow, reservoir and storage analysis; hydraulic structures and machinery. Effective: Fall 2004

ADD	CE 3801	<p>Environmental Engineering and Water Resources Engineering I Laboratory. (1). (Co-requisite: Credit or concurrent enrollment in CE 3803). Three hours laboratory. A laboratory introduction to processes and operations used in systems for water supply and wastewater reclamation.</p> <p>METHOD OF INSTRUCTION: L C.I.P. NUMBER: 14.0801 24-CHARACTER ABBREVIATION: Env./Wtr.Res.Engr.I Lab</p> <p>Effective: Fall 2004</p>
ADD	CE 3803	<p>Environmental Engineering and Water Resources Engineering I. (3). (Prerequisite: Grade of C or better in CE 2803; credit in ST 3123). Three hours lecture. An introduction to the analysis and desing of systems for hydraulic and hydrologic management, water supply, and wastewater reclamation.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0801 24-CHARACTER ABBREVIATION: Enviro./Wtr.Res.Engr.I</p> <p>Effective: Fall 2004</p>
ADD	CE 3811	<p>Environmental and Water Resources Engineering II Laboratory. (1). (Co-requisite: Credit or concurrent enrollment in CE 3813). Three hours laboratory. A laboratory introduction to the analysis and design of systems for hydraulic and hydrologic management.</p> <p>METHOD OF INSTRUCTION: L C.I.P. NUMBER: 14.0801 24-CHARACTER ABBREVIATION: Env./Wtr.Res.Engr.II Lab</p> <p>Effective: Fall 2004</p>

ADD	CE 3813	<p>Environmental and Water Resources Engineering II. (3). (Prerequisite: Grade of C or better in CE 3803). Three hours lecture. Pressurized flow in pipe networks. Analysis and design of water distribution, stormwater collection and sanitary sewer systems.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0801 24-CHARACTER ABBREVIATION: Enviro./Wtr.Res.Engr.II</p> <p>Effective: Fall 2004</p>
DELETE	CE 3824	<p>Environmental Engineering. (4). (Prerequisite: Grade of C or better in EM 3313; credit or current enrollment in IE 4613). Emphasis on water supply and treatment, wastewater treatment and disposal, air pollution control and solid waste management.</p> <p>Effective: Fall 2004</p>
ADD	CE 4183/6183	<p>Waterborne Transportation Engineering. (3) (Prerequisite: A grade of C or better in CE 3113). Three hours lecture. Navigation vessels and their characteristics. Planning and design of Marine Transportation System facilities including navigation ports, channels and locks.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0805 24-CHARACTER ABBREVIATION: Water Transportation</p> <p>Effective: Fall 2004</p>

ADD	CE 4563/6563	<p>Sedimentation Engineering. (3). (Prerequisite: Grade of C or better in CE 4523/6523). Three hours lecture. Processes by which cohesive and non-cohesive sediments are transported in overland flow and in rivers, reservoirs, estuaries and coastlines. Deposition and erosion rates. Design criteria.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0805 24-CHARACTER ABBREVIATION: Sedimentation Engr</p> <p>Effective: Fall 2004</p>
ADD	CE 4613/6613	<p>Analysis of Structures for Forces of Nature. (3). (Prerequisite: Grade of C or better in CE 4601; credit or current enrollment in CE 4623 or CE 4601). Three hours lecture. Determination of structural design forces caused by effects of nature, with particular emphasis on wind and seismic forces. Application of current design codes and standards.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 14.0803 24-CHARACTER ABBREVIATION: An.of Str. Forc.of Nat.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CE 4903/6903</p> <p>TO: CE 4903/6903</p>	<p>Civil Engineering Comprehensive. (3). (Prerequisite: Senior standing). Application of engineering principles in the planning, design and construction of civil engineering projects.</p> <p>Civil Engineering Comprehensive. (3). (Prerequisite: Graduation semester, or consent of department head). Engineering, ethical and professional practice considerations in the planning, design and construction of civil engineering projects.</p> <p>Effective: Fall 2004</p>
<p>DELETE CSE 3124</p>	<p>Microprocessors I. (4). (Prerequisites: Grade of C or better in CSE 1233 or CSE 1284 and ECE 3714). Three hours lecture. Three hours laboratory. Architecture of microprocessor-based systems. Study of microprocessor operation, assembly language, arithmetic operations, and interfacing. (Same as ECE 3724).</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CSE 3212</p> <p>TO: CSE 3212</p>	<p>Software Engineering Senior Project I. (2). (Prerequisite: CSE 4224 with C or better). Four hours laboratory. Software requirements elicitation and specification, cost estimation, scheduling, development of project management and quality assurance plans, reviews.</p> <p>Software Engineering Senior Project I. (2). (Prerequisite: CSE 4214 with a grade of C or better). Four hours laboratory. Software requirements elicitation and specification, cost estimation, scheduling, development of project management and quality assurance plans, reviews.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CSE 3222</p> <p>TO: CSE 3222</p>	<p>Software Engineering Senior Project II. (2). (Prerequisite: CSE 4224 with C or better). Four hours laboratory. Team work, software design, construction, implementation of project management and quality assurance plans, and configuration management.</p> <p>Software Engineering Senior Project II. (2). (Prerequisite: CSE 4214 with a grade of C or better). Four hours laboratory. Team work, software design, construction, implementation of project management and quality assurance plans, and configuration management.</p> <p>Effective: Fall 2004</p>
<p>DELETE CSE 4113/6113</p>	<p>Computer Architecture. (3). (Prerequisite: Grade of C or better in ECE 3724/CSE 3124). Three hours lecture. Detailed design and implementation of a stored-program digital computer system. Designs for the CPU, I/O subsystems, and memory organizations. ALU design and computer arithmetic. (Same as ECE 4713/6713).</p> <p>Effective: Fall 2004</p>
<p>DELETE CSE 4213/6213</p>	<p>Software Engineering I. (3). (Prerequisite: CSE 2383 with a grade of C or better). Two hours lecture. Two hours laboratory. Software planning; software requirements analysis and specification; software design; testing and debugging; maintenance; documentation.</p> <p>Effective: Fall 2004</p>

ADD	CSE 4214/6214	<p>Introduction to Software Engineering. (4). (Prerequisite: CSE 2383 with a grade of C or better). Three hours lecture. Two hours laboratory. Introduction to software engineering: planning, requirements analysis and specification, design; testing; debugging; maintenance; documentation. Alternative design methods, software metrics, software project management, reuse, and reengineering.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 11.0701 24-CHARACTER ABBREVIATION: Intro to Software Eng.</p> <p>Effective: Fall 2004</p>
DELETE	CSE 4224/6224	<p>Software Engineering II. (4). (Prerequisites: CSE 4213/6213 with a C or better). Three hours lecture. Two hours laboratory. Advanced topics in software engineering including: alternative design methods, CASE, software quality assurance, software metrics, project management, reuse, reengineering and maintenance.</p> <p>Effective: Spring 2005</p>
MODIFY FROM:	CSE 4233/6233	<p>Software Architecture and Design Paradigms. (3). (Prerequisite: CSE 4224/6224 with a C or better). Three hours lecture. Topics include software architectures, methodologies, model representations, component-based design, patterns, frameworks, CASE-based designs, and case studies.</p>
TO:	CSE 4233/6233	<p>Software Architecture and Design Paradigms. (3). (Prerequisite: CSE 4214/6214 with a grade of C or better). Three hours lecture. Topics include software architectures, methodologies, model representations, component-based design, patterns, frameworks, CASE-based designs, and case studies.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CSE 4283/6283</p> <p>TO: CSE 4283/6283</p>	<p>Software Testing and Quality Assurance. (3). (Prerequisite: CSE 4213/6213 with a C or better). Three hours lecture. Topics include methods of testing, verification and validation, quality assurance processes and techniques, methods and types of testing, and ISE 9000/SEI CMM process evaluation.</p> <p>Software Testing and Quality Assurance. (3). (Prerequisite: CSE 4214/6214 with a grade of C or better). Three hours lecture. Topics include methods of testing, verification and validation, quality assurance processes and techniques, methods and types of testing, and ISE 9000/SEI CMM process evaluation.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CSE 4713/6713</p> <p>TO: CSE 4713/6713</p>	<p>Programming Languages. (3). (Prerequisites: CSE 3124 or ECE 3724 and CSE 3813 both with a grade of C or better). Three hours lecture. An introduction to programming languages specification and analysis. Additional topics include control structures, data types and structures, run-time environments, binding strategies, compilers, and interpreters.</p> <p>Programming Languages. (3). (Prerequisite: ECE 3724 and CSE 3813 both with a grade of C or better). Three hours lecture. An introduction to programming languages specification and analysis. Additional topics include control structures, data types and structures, run-time environments, binding strategies, compilers, and interpreters.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: CSE 4733/6733</p> <p>TO: CSE 4733/6733</p>	<p>Operating Systems I. (3). (Prerequisites: CSE 2383 and CSE 3124 or ECE 3724 both with a grade of C or better). Three hours lecture. Historical development of operating systems to control complex computing systems; process management, communication, scheduling techniques; file system concepts and operation; data communication, distributed process management.</p> <p>Operating Systems I. (3). (Prerequisites: CSE 2383 and ECE 3724 both with a grade of C or better). Three hours lecture. Historical development of operating systems to control complex computing systems; process management, communication, scheduling techniques; file system concepts and operation; data communication, distributed process management.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CSE 8233</p> <p>TO: CSE 8233</p>	<p>Software Engineering Project Management. (3). (Prerequisite: CSE 4213/6213). Three hours lecture. Management of the engineering of software products including estimating, planning, process management, and special topics.</p> <p>Software Engineering Project Management. (3). (Prerequisite: CSE 4214/6214). Three hours lecture. Management of the engineering of software products including estimating, planning, process management, and special topics.</p> <p>Effective: Fall 2004</p>

MODIFY FROM:	CSE 8243	Software Specification. (3). (Prerequisite: CSE 4213/6213). Three hours lecture. Writing software specifications, transforming specifications into code, and verifying transformations using formal methods.
TO:	CSE 8243	Software Specification. (3). (Prerequisite: CSE 4214/6214). Three hours lecture. Writing software specifications, transforming specifications into code, and verifying transformations using formal methods. Effective: Fall 2004
MODIFY FROM:	CSE 8253	Software Design. (3). (Prerequisite: CSE 4213/6213). Three hours lecture. Software design principles, attributes, models, and methodologies; object-oriented designs; real-time system design; user interface design verification; reusability issues; tools; current issues.
TO:	CSE 8253	Software Design. (3). (Prerequisite: CSE 4214/6214). Three hours lecture. Software design principles, attributes, models, and methodologies; object-oriented designs; real-time system design; user interface design verification; reusability issues; tools; current issues. Effective: Fall 2004

<p>MODIFY FROM: CSE 8263</p> <p>TO: CSE 8263</p>	<p>Software Verification and Validation. (3). (Prerequisites: CSE 3813 and either CSE 4213/6213 or CSE 8253). Three hours lecture. The theory and practice of ensuring high-quality software products, including quality assessment, proof of correctness, testing, and verification and validation methodology.</p> <p>Software Verification and Validation. (3). (Prerequisites: CSE 3813 and either CSE 4214/6214 or CSE 8253). Three hours lecture. The theory and practice of ensuring high-quality software products, including quality assessment, proof of correctness, testing, and verification and validation methodology.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: CSE 8273</p> <p>TO: CSE 8273</p>	<p>Software Requirements Engineering. (3). (Prerequisite: CSE 4213/6213 with a C or better). Three hours lecture. An in-depth study of current research and practice in requirements elicitation, requirements analysis, requirements specification, requirements verification and validation, and requirements management.</p> <p>Software Requirements Engineering. (3). (Prerequisite: CSE 4214/6214 with a C or better). Three hours lecture. An in-depth study of current research and practice in requirements elicitation, requirements, analysis, requirements specification, requirements verification and validation, and requirements management.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: ECE 3724</p> <p>TO: ECE 3724</p>	<p>Microprocessors I. (4). (Prerequisites: Grade of C or better in CSE 1233 or CSE 1284 and ECE 3714). Three hours lecture. Three hours laboratory. Architecture of microprocessor-based systems. Study of microprocessor operation, assembly language, arithmetic operations, and interfacing. (Same as CSE 3124).</p> <p>Microprocessors I. (4). (Prerequisites: Grade of C or better in CSE 1233 or CSE 1284 and ECE 3714). Three hours lecture. Three hours laboratory. Architecture of microprocessor-based systems. Study of microprocessor operation, assembly language, arithmetic operations, and interfacing.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: ECE 4713/6713</p> <p>TO: ECE 4713/6713</p>	<p>Computer Architecture. (3). (Prerequisites: Grade of C or better in ECE 3724/CSE 3124). Three hours lecture. Detailed design and implementation of a stored-program digital computer system. Designs for the CPU, I/O subsystems, and memory organizations. ALU design and computer arithmetic. (Same as CSE 4113/6113).</p> <p>Computer Architecture. (3). (Prerequisites: Grade of C or better in ECE 3724). Three hours lecture. Detailed design and implementation of a stored-program digital computer system. Designs for the CPU, I/O subsystems, and memory organizations. ALU design and computer arithmetic.</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: IE 4543/6543</p> <p>TO: IE 4543/6543</p>	<p>Logistics Engineering. (3). (Prerequisite: IE 4613 and senior or graduate standing). Three hours lecture. Analysis of complex logistics networks. Integration of supply, production, inventory, transportation, and distribution. Strategies for reducing logistics costs and lead times. Customer-supplier partnerships.</p> <p>Logistics Engineering. (3). (Prerequisite: IE 4613 and senior or graduate standing. Corequisite: IE 4733). Three hours lecture. Analysis of complex logistics networks. Integration of supply, production, inventory, transportation, and distribution. Strategies for reducing logistics costs and lead times. Customer-supplier partnerships.</p> <p>Effective: Fall 2004</p>
<p>MODIFY FROM: IE 4733/6733</p> <p>TO: IE 4733/6733</p>	<p>Linear Programming I. (3). (Prerequisites: CS 1213 and MA 3113). General theory of linear programming and its application; the simplex algorithm, revised simplex algorithm, duality, sensitivity transportation algorithm, assignment algorithm network analysis, and goal programming. (Same as MA 4733/6733).</p> <p>Linear Programming. (3). (Prerequisite: MA 3113). Three hours lecture. Theory and application of linear programming; simplex algorithm, revised simplex algorithm, duality and sensitivity analysis, transportation and assignment problem algorithms, integer and goal programming. (Same as MA 4733/6733).</p> <p>24-CHARACTER ABBREVIATION: Linear Programming</p> <p>Effective: Fall 2004</p>

<p>MODIFY FROM: IE 4773/6773</p> <p>TO: IE 4773/6773</p>	<p>Systems Simulation I. (3). (Prerequisite: CS 1233 or equivalent and grade of C or better in IE 4613). Three hours lecture. Introduction to mathematical techniques of queuing and the principles of stochastic simulation. The statistics of simulation. Use of C programming language and special purpose simulation languages.</p> <p>Systems Simulation I. (3). (Prerequisites: Grade of C or better in IE 4613 and grade of C or better in IE 4934). Three hours lecture. The principles of simulating stochastic systems with an emphasis on the statistics of simulation and the use of discrete-event simulation languages.</p> <p>Effective: Fall 2004</p>
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COLLEGE OF VETERINARY MEDICINE

<p>MODIFY FROM: CVM 5003</p> <p>TO: CVM 5011</p>	<p>Professional Development I. (3). Lecture. An overview of the Veterinary Medical profession, orientation to the curriculum, student development, responsibilities, evaluation, professional ethics, and communication skills.</p> <p>Professional Development I. (1). (Prerequisite: Enrollment in the professional veterinary degree program). One hour lecture. This course will include COPE, personality profiles and understanding personality, dealing with stress, and study skills.</p> <p>Effective: Summer 2004</p>
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ADD	CVM 5012	<p>Veterinary Informatics and Evidence-Based Medicine. (2). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. This course will include concepts and applications in medical informatics, evidence-based medicine, veterinary problem solving, and critical thinking.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Veterinary Informatics</p> <p>Effective: Summer 2004</p>
ADD	CVM 5022	<p>Veterinary Epidemiology. (2). (Prerequisite: enrollment in the professional veterinary degree program). Two hours lecture. Presentation of basic concepts and principles of epidemiology and the relationship to animal and human health.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Veterinary Epidemiology</p> <p>Effective: Spring 2005</p>

MODIFY		
FROM:	CVM 5023	Fundamentals of Infectious Agents. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. Two hours laboratory. Presentation of principles essential to understanding the classification, pathophysiological mechanisms, control and diagnosis of viruses, bacteria, fungi and parasites of importance in veterinary medicine.
TO:	CVM 5023	Immunology and Mechanisms of Infectious Agents. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Three hours lecture. Principles regarding immune responses and the classification, pathophysiological mechanisms, control & diagnosis of viruses, bacteria, and fungi of importance in veterinary medicine. 24-CHARACTER ABBREVIATION: Immuno Mech Inf Agents Effective: Summer 2004

<p>MODIFY FROM: CVM 5033</p> <p>TO: CVM 5033</p>	<p>Veterinary Physiology. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Three hours lecture. Presentation of fundamental concepts, principles, and issues in veterinary physiology specifically related to cellular, membrane, muscle, cardiovascular, respiratory, renal, digestive, endocrine and reproductive physiology.</p> <p>Veterinary Physiology I. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Three hours lecture. Presentation of fundamental concepts, principles, and issues in veterinary physiology specifically related to cellular, membrane, muscle, cardiovascular, respiratory, and renal physiology.</p> <p>24-CHARACTER ABBREVIATION: Veterinary Physiology I</p> <p>Effective: Summer 2004</p>
<p>DELETE CVM 5043</p>	<p>Veterinary Pathobiology. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Three hours lecture. Basic principles and concepts of immunology and anatomical and clinical pathology necessary for understanding complicated medical problems.</p> <p>Effective: Summer 2004</p>
<p>ADD CVM 5044</p>	<p>Veterinary Pathology. (4). (Prerequisite: Enrollment in the professional veterinary degree program). Four hours lecture. Introduction to the host response to endogenous and exogenous injury. Emphasis will be on general and systematic anatomic pathology.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Intro Vet Pathology</p> <p>Effective: Spring 2005</p>

<p>MODIFY FROM: CVM 5063</p> <p>TO: CVM 5074</p>	<p>Veterinary Anatomy II. (3). (Prerequisite: CVM 5064 and enrollment in the professional veterinary degree program). Four hours lecture-lab combination. Study of gross anatomy through dissection with integration of embryological and radiographic anatomy. Canine and feline alimentary system/abdomen, urogenital system, pelvic cavity, and mammary gland.</p> <p>Veterinary Anatomy II. (4). (Prerequisite: C or better in CVM 5064 and enrollment in the professional veterinary degree program). Six hours lecture-lab combination. Study of anatomy through dissection with integration of embryological/radiographic anatomy. Thorax, alimentary system/abdomen, urogenital system, pelvic cavity, and mammary gland. Canine and bovine models primarily.</p> <p>Effective: Summer 2004</p>
<p>MODIFY FROM: CVM 5064</p> <p>TO: CVM 5064</p>	<p>Veterinary Anatomy I. (4). (Prerequisite: Enrollment in the professional veterinary degree program). Six hours lecture-lab combination. Study of gross anatomy through dissection with integration of embryology and radiographic anatomy. Canine and feline hindlimb, forelimb, vertebral column, head, neck, and the thorax.</p> <p>Veterinary Anatomy I. (4). (Prerequisite: Enrollment in the professional veterinary degree program. Six hours lecture-lab combination. Study of gross anatomy through dissection with integration of embryology and radiographic anatomy. Hindlimb/forelimb, vertebral column, head, and the neck. Canine and equine models primarily.</p> <p>Effective: Summer 2004</p>

<p>MODIFY FROM: CVM 5073</p> <p>TO: CVM 5073</p>	<p>Veterinary Histology. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Basic microscopic anatomy of cells, tissues, organs, and organ systems. The course is a lecture-lab combination, which will meet for a one-hour lecture and two laboratory sessions (at two hours each) per week.</p> <p>Veterinary Histology. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. Two hours laboratory. Basic microscopic anatomy of cells, tissues, organs, and organ systems.</p> <p>Effective: Summer 2004</p>
<p>MODIFY FROM: CVM 5082</p> <p>TO: CVM 5013</p>	<p>Veterinary Neuroscience. (2). (Prerequisite: Enrollment in the professional veterinary degree program). Four hours lecture. Total of six hours laboratory for the entire course. Basic anatomic and physiologic concepts foundational to understanding animal behaviors and veterinary neurology.</p> <p>Veterinary Neuroscience. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. One hour laboratory. Basic anatomic and physiologic concepts foundational to understanding animal behaviors and veterinary neurology.</p> <p>Effective: Summer 2004</p>

ADD	CVM 5122	<p>Anesthesiology & Pharmacology I. (2). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. Basic principles of drugs action, absorption and metabolism will be covered, along with anesthesiology, including an introduction to patient management, anesthetic induction, and anesthesia equipment.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Anes & Pharm I</p> <p>Effective: Fall 2004</p>
ADD	CVM 5123	<p>Veterinary Clinical Pathology. (3). (Prerequisite: enrollment in the professional veterinary degree program). Three hours lecture. This course covers the basic concepts of hematology, clinical chemistry, and cytology. The interpretation of laboratory methods used in evaluation will also be covered.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Vet Clinical Pathology</p> <p>Effective: Fall 2004</p>

ADD	CVM 5132	<p>Anesthesiology & Pharmacology II. (2). (Prerequisite: enrollment in the veterinary professional degree program). Two hours lecture. Principles of anesthetic techniques in various species along with systems oriented anesthesia. Mechanisms of antimicrobial action with an emphasis on antimicrobial therapy.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Anes & Pharm II</p> <p>Effective: Spring 2005</p>
ADD	CVM 5133	<p>Veterinary Preventive Medicine. (3). (Prerequisite: enrollment in the professional veterinary degree program). Three hours lecture. Management and prevention of animal diseases that impact animal and human health.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Vet. Preventive Med.</p> <p>Effective: Fall 2004</p>
ADD	CVM 5142	<p>Equine Medicine and Surgery I. (2). (Prerequisite: enrollment in the professional veterinary degree program). Two hours lecture. The principles of diagnosis and the medical and surgical management of multi-systemic disorders involving the equine cardiovascular, endocrine, gastrointestinal, immune, and urinary systems.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Equine Med & Surg I</p> <p>Effective: Fall 2004</p>

ADD	CVM 5143	<p>Theriogenology. (3). (Prerequisite: enrollment in the professional veterinary degree program). Two hours lecture. Two hours laboratory. The pathogenesis, diagnosis, pathology, medical and surgical treatment, and prevention of diseases related to the urogenital system of domestic species.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Theriogenology</p> <p>Effective: Fall 2004</p>
ADD	CVM 5152	<p>Toxicology. (2). (Prerequisite: enrollment in the professional veterinary degree program). One hour lecture. Two hours laboratory. Diagnosis and management of animal intoxications.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Veterinary Toxicology</p> <p>Effective: Fall 2004</p>
ADD	CVM 5153	<p>Equine Medicine & Surgery II. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. Two hours laboratory. The principles of diagnosis and the medical and surgical management of disorders involving the equine skin, and the musculoskeletal, nervous, ophthalmic, and respiratory systems.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Equine Med & Surg II</p> <p>Effective: Spring 2005</p>

ADD	CVM 5162	<p>Diagnostic Imaging. (2). (Prerequisite: enrollment in the professional veterinary degree program). Two hours lecture. This course introduces the fundamental principles of radiographic diagnosis of abnormal body systems. Included are the physics and principles of interpretation and visual perception.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Diagnostic Imaging</p> <p>Effective: Spring 2005</p>
ADD	CVM 5163	<p>Veterinary Parasitology. (3). (Prerequisite: Enrollment in the professional veterinary degree program). Two hours lecture. Two hours laboratory. Presentation of principles essential to understanding the classification, pathophysiological mechanisms, control and diagnosis of parasites of importance in veterinary medicine.</p> <p>METHOD OF INSTRUCTION: L C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Vet Parasitology</p> <p>Effective: Fall 2004</p>

ADD	CVM 5175	<p>Food Animal Medicine and Surgery. (5). (Prerequisite: enrollment in the professional veterinary degree program). Four hours lecture. Two hours laboratory. Diseases and common surgical conditions of food animals including history, clinical signs, diagnostic methods, medical treatment, surgical correction, prognosis, and prevention.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Food Animal Med. & Surg.</p> <p>Effective: Spring 2005</p>
ADD	CVM 5183	<p>Special Species. (3). (Prerequisite: enrollment in the professional veterinary degree program). Three hours lecture. This course will cover applied anatomy, physiology, husbandry and common diseases in avian, aquatic, reptiles, amphibians, rodents and other minor species.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Special Species</p> <p>Effective: Spring 2005</p>
ADD	CVM 5185	<p>Small Animal Medicine and Surgery I. (5). (Prerequisite: enrollment in the professional veterinary degree program). Four hours lecture. Two hours laboratory. This course covers diagnosis and treatment of medical and surgical conditions of the cardio-respiratory, dermatological and urogenital systems.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Small Anim Med & Surg I</p> <p>Effective: Fall 2004</p>

ADD	CVM 5195	<p>Small Animal Medicine and Surgery II. (5). (Prerequisite: enrollment in the professional veterinary degree program). Four hours lecture. Two hours laboratory. Course covers diagnosis and treatment of medical and surgical conditions of the musculoskeletal, digestive, and endocrine systems.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2401 24-CHARACTER ABBREVIATION: Small Anim Med & Surg II</p> <p>Effective: Spring 2005</p>
ADD	CVM 8802	<p>Canine Theriogenology. (2). (Prerequisite: Consent of Instructor). Two hours practicum. Advanced study of canine reproduction. Review of basic diagnostics and procedures followed by an introduction to assisted reproductive technology (ART).</p> <p>METHOD OF INSTRUCTION: E C.I.P. NUMBER: 51.2501 24-CHARACTER ABBREVIATION: Canine Theriogenology</p> <p>Effective: Fall 2004</p>
ADD	CVM 8812	<p>Equine Reproductive Ultrasound. (2). (Prerequisite: Consent of Instructor). One hour lecture. Two hours laboratory. Advanced study of ultrasound diagnostics of the equine urogenital systems in the male and female.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2507 24-CHARACTER ABBREVIATION: Equine Repro. Ultrasound</p> <p>Effective: Spring 2004</p>

ADD	CVM 8825	<p>Large Animal Urogenital Surgery. (5). (Prerequisite: Consent of Instructor). Three hours lecture. Four hours laboratory. Urogenital surgery of the male and female in the equine and bovine species.</p> <p>METHOD OF INSTRUCTION: C C.I.P. NUMBER: 51.2507 24-CHARACTER ABBREVIATION: Lg. An. Urogenital Surg.</p> <p>Effective: Fall 2004</p>
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DEGREE PROGRAMS

MODIFY	College of Ag & Life Sciences, B.S. Poultry Science	<p>Change in course requirements and addition of Agribusiness minor.</p> <p>Effective: Fall 2004</p>
MODIFY	College of Architecture, M.S. Architecture	<p>Change in non-thesis credit hours and rewording of course description.</p> <p>Effective: Fall 2004</p>
MODIFY	College of Arts and Sciences, B.A. Chemistry	<p>Change in course requirements.</p> <p>Effective: Fall 2004</p>
MODIFY	College of Arts and Sciences, B.S. Chemistry Pre-Medical	<p>Change in course requirements.</p> <p>Effective: Fall 2004</p>

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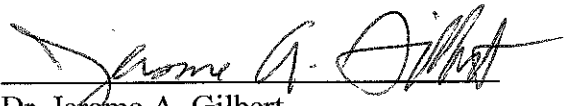
MODIFY	College of Arts and Sciences, B.S. Chemistry (A.C.S. Certification)	Change in course requirements. Effective: Fall 2004
MODIFY	College of Arts and Sciences, B.S. Chemistry (without A.C.S. Certification)	Change in course requirements. Effective: Fall 2004
ADD	College of Arts and Sciences, B.A. Music	Addition of new degree Effective: Fall 2004
MODIFY	College of Business and Industry, BBA Business Information Systems	Change in course requirements. Effective: Summer 2004
MODIFY	College of Education, Ph.D. College/Postsecondary Student Counseling and Personnel	Change in course requirements. Effective: Fall 2004
MODIFY	College of Education, M.S. Counselor Education College Counseling Emphasis	Change in emphasis title and course requirements. Effective: Fall 2004
MODIFY	College of Education, Ph.D. Counselor Education/Student Counseling and Guidance	Change in course requirements. Effective: Fall 2004
MODIFY	College of Engineering, B.S. Civil Engineering	Change in course requirements. Effective: Fall 2004
MODIFY	College of Engineering, B.S. Industrial Engineering	Change in course requirements. Effective: Fall 2004
MODIFY	College of Engineering, B.S. Computer Science	Change in course requirements. Effective: Fall 2004

MODIFY	College of Engineering, B.S. Software Engineering	Change in course requirements. Effective: Fall 2004
MODIFY	College of Engineering Minor in Software Engineering	Change in course requirements. Effective: Fall 2004

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

Proposals**


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

7-8-04
Date

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