

## MEMORANDUM

March 24, 2004

**TO:** Academic Deans Council

**FROM:** Dr. Keith L. Belli  
UCCC Chair

**RE:** Change Notice 5

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 April 8, 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.

### ARTS & SCIENCES

ADD	BIO 4673/6673 <b>Industrial Microbiology.</b> (3). Three hours lecture. Introduction to microbial anatomy, physiology, and genetics. Use of microorganisms and their by-products. Identification and control of biofouling, biocorrosion, and biodegradation of products and processes. (Same as CHE 4673/6673).  <b>METHOD OF INSTRUCTION:</b> C <b>C.I.P. NUMBER:</b> 14.0701 <b>24-CHARACTER ABBREVIATION:</b> BIO Indust. Microbiology  <b>Effective: Summer 2004</b>
-----	---

<p>ADD GR 3303</p>	<p><b>Survey of Geospatial Technologies.</b> (3). (Prerequisite: GR 2313 or Consent of Instructor). Three hours lecture. Geographic Information Systems, Remote Sensing and Global Positioning Systems applied to earth systems and science. Includes field excursions for hands on experience with current technologies.</p> <p><b>METHOD OF INSTRUCTION:</b> C  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>  Survey Geospatial Tech</p> <p><b>Effective: Fall 2004</b></p>
<p>ADD GR 3311</p>	<p><b>Geospatial Applications.</b> (1). (Prerequisite: GR 2313 or Consent of Instructor). One hour lecture. Extensive investigation of the primary geospatial computer packages. Course will focus on the utilization and application of these computer packages related to current geospatial technologies.</p> <p><b>METHOD OF INSTRUCTION:</b> C  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>  Geospatial Applications</p> <p><b>Effective: Fall 2004</b></p>
<p>ADD GR 3313</p>	<p><b>Introduction to Geodatabases.</b> (3). (Prerequisite: GR 2313 or Consent of Instructor). Three hours lecture. Examination of geodatabase structures utilized in Geographic Information Systems. Implementations of GIS components through spatial programming using Visual Basic applications designed for geospatial data.</p> <p><b>METHOD OF INSTRUCTION:</b> C  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>  Intro to Geodatabases</p> <p><b>Effective: Fall 2004</b></p>

ADD	GR 4303/6303	<p><b>Principles of GIS.</b> (3) (Prerequisite: Junior or graduate standing, or consent of instructor). Two hours lecture. Two hours laboratory. Spatial analysis and topological relationships of geographic data using Geographic Information Systems, with emphasis on GIS theory.</p> <p><b>METHOD OF INSTRUCTION:</b> B  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>  Principles of GIS</p> <p><b>Effective: Fall 2004</b></p>
ADD	GR 4313/6313	<p><b>Advanced GIS.</b> (3). (Prerequisite: GR 4303/6303 or Consent of Instructor). Two hours lecture. Two hours laboratory. Vector-based file structure and GIS queries using spatial and geodatabase attributes. Descriptive and prescriptive modeling in the raster domain including regression and linear weighted modeling.</p> <p><b>METHOD OF INSTRUCTION:</b> B  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>  Advanced GIS</p> <p><b>Effective: Fall 2004</b></p>
ADD	GR 4323/6323	<p><b>Cartographic Sciences.</b> (3). (Prerequisite: Junior or graduate standing or Consent of Instructor). Two hours lecture. Two hours laboratory. Principles of cartographic theory and map design. Types of maps, map projections, proportional symbols, use of color, mapping and statistics, interactive maps, and map animation.</p> <p><b>METHOD OF INSTRUCTION:</b> B  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>  Cartographic Sciences</p> <p><b>Effective: Fall 2004</b></p>

<p>ADD GR 4333/6333</p>	<p><b>Remote Sensing of the Physical Environment.</b> (3)          (Prerequisite: GR 3303, GR 3311 or Consent of Instructor).          Two hours lecture. Two hours laboratory. Examines remote sensing methods applicable to large-area analyses of watershed-level drainage systems, urban landscape, landscape vegetation metrics, physical landscape structural components, and atmospheric features.</p> <p><b>METHOD OF INSTRUCTION:</b> B  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>          Remote Sensing Phys Env</p> <p><b>Effective: Fall 2004</b></p>
<p>ADD GR 8303</p>	<p><b>Geodatabase Systems.</b> (3). (Prerequisite: Consent of Instructor). Two hours lecture. Two hours laboratory. Examination of database structures utilized in geospatial information systems. Design and use of geospatial databases through spatial programming in development and implementation of spatial models.</p> <p><b>METHOD OF INSTRUCTION:</b> B  <b>C.I.P. NUMBER:</b> 45.0701  <b>24-CHARACTER ABBREVIATION:</b>          Geodatabase Systems</p> <p><b>Effective: Fall 2004</b></p>
<p>MODIFY          FROM: SO 4403/6403           TO: SO 4403/6403</p>	<p><b>Sex Roles and Gender.</b> (3) Three hours lecture. Changing sex roles in theory and reality, social problems associated with gender, and probable future realities of the female-male relationships [sic]</p> <p><b>Sociology of Gender.</b> (3). Three hours lecture. Changing character of gender and significance in various social institutions. Intersection between gender and other forms of inequality.</p>

ADD	SO 8203	<p><b>Data Management in the Social Sciences.</b> (3) Three hours lecture. Acquisition, management, and manipulation of social science data sources, comprehensive statistical package instruction, basic computation and analysis, and relation between sociological theory and data analysis.</p> <p><b>METHOD OF INSTRUCTION:</b> C  <b>C.I.P. NUMBER:</b> 45.1101  <b>24-CHARACTER ABBREVIATION:</b>  Data Management Soc Sci</p> <p><b>Effective: Fall 2004</b></p>
-----	---------	--

## EDUCATION

ADD	MU 1141	<p><b>Seminar for Voice Majors.</b> (1) One hour seminar. Acquiring the skills to pronounce and sing vocal text correctly in various languages by the use of the International Phonetic Alphabet (IPA). Music education majors only.</p> <p><b>METHOD OF INSTRUCTION:</b> C  <b>C.I.P. NUMBER:</b> 50.0908  <b>24-CHARACTER ABBREVIATION:</b>  Seminar for Voice Majors</p> <p><b>Effective: Fall 2004</b></p>
-----	---------	--

## ENGINEERING

<p>ADD</p> <p>CHE 4673/6673</p>	<p><b>Industrial Microbiology.</b> (3). Three hours lecture. Introduction to microbial anatomy, physiology, and genetics. Use of microorganisms and their by-products. Identification and control of biofouling, biocorrosion, and biodegradation of products and processes. (Same as BIO 4673/6673).</p> <p><b>METHOD OF INSTRUCTION:</b> C  <b>C.I.P. NUMBER:</b> 14.0701  <b>24-CHARACTER ABBREVIATION:</b>  CHE Indust. Microbiology</p> <p><b>Effective: Summer 2004</b></p>
<p>MODIFY</p> <p>FROM: CSE 4213/6213</p> <p>TO: CSE 4213/6213</p>	<p><b>Software Engineering I.</b> (3). (Prerequisite: CSE 2314 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><b>Software Engineering I.</b> (3). (Prerequisite: CS 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>MODIFY</p> <p>FROM: CSE 4633/6633</p> <p>TO: CSE 4633/6633</p>	<p><b>Artificial Intelligence.</b> (3). (prerequisites: CSE 3813 with a grade of C or better). Three hours lecture. Study of the computer in context with human thought processes. Heuristic programming; search strategies; knowledge representation; natural language understanding; perception, learning.</p> <p><b>Artificial Intelligence.</b> (3). (prerequisites: CSE 2383 and CSE 2813 with a grade of C or better). Three hours lecture. Study of the computer in context with human thought processes. Heuristic programming; search strategies; knowledge representation; natural language understanding; perception, learning.</p>

**DEGREE PROGRAMS**

MODIFY	College of Ag & Life Sciences, Ph.D. Applied Economics	Change to include separate tracks for Business and Ag.  Effective: Spring 2004
MODIFY	College of Arts & Sciences, B.S. Geoscience	Addition of GIS concentration  Effective: Fall 2004
MODIFY	College of Business & Industry, Ph.D. Applied Economics	Change to include separate tracks for Business and Ag.  Effective: Spring 2004
MODIFY	College of Education, B.M.E. Music Education	Change in course requirements  Effective: Fall 2004
MODIFY	College of Education, B.S. Technology Teacher Education	Change in course requirements  Effective: Spring 2004
MODIFY	College of Education, M.S. Elementary Education	Change in credit hour requirements.  Effective: Spring 2004
ADD	College of Education, M.A. Teaching-Secondary Teacher Education (Alternate Route) MAT-S	Addition of new degree  Effective: Spring 2004

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.**