

COLLEGE OF ARTS AND SCIENCES
COURSE AND CURRICULUM CHANGES

approved at the College faculty meeting

April 1, 2004

Thompson Rm. 101

4:00 p.m.

Undergraduate/Graduate

Contact Person: Gerald Reeck
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Please provide the sponsors of a proposed change with any information regarding fiscal or programmatic impact on your department, program or students.

COURSE CHANGES**Dean of Arts and Sciences**

- CHANGE:** ~~ENGL 035~~. Special Studies in English (1-18)
TO: DAS 135. Special Studies in English (1-18)
- CHANGE:** ~~ENGL 036~~. Beginning English I (1-18)
TO: DAS 136. Beginning English I (1-18)
- CHANGE:** ~~ENGL 038~~. Beginning English II (1-18)
TO: DAS 138. Beginning English II (1-18)
- CHANGE:** ~~ENGL 040~~. Intermediate English I (1-18)
TO: DAS 140. Intermediate English I (1-18)
- CHANGE:** ~~ENGL 050~~. Intermediate English II (1-18)
TO: DAS 150. Intermediate English II (1-18)
- CHANGE:** ~~ENGL 052~~. Advanced English (1-18)
TO: DAS 152. Advanced English (1-18)
- CHANGE:** ~~ENGL 076~~. Reading Skills (3)
TO: DAS 176. Reading Skills (3)
- CHANGE:** ~~ENGL 077~~. Written Communication/Non-Native Speakers (3)
TO: DAS 177. Written Communication/Non-Native Speakers (3)
- CHANGE:** ~~ENGL 078~~. Oral Communication/Non-Native Speakers (3)
TO: DAS 178. Oral Communication/Non-Native Speakers (3)
- CHANGE:** ~~ENGL 079~~. Pronunciation/Speaking Skills (2-3)
TO: DAS 179. Pronunciation/Speaking Skills (2-3)
- CHANGE:** ~~ENGL 084~~. Advanced Integrated English (3)
TO: DAS 181. Advanced Integrated English (3)
- CHANGE:** ~~ENGL 085~~. Teaching and Cultural Orientation for ITAs (3)
TO: DAS 185. Teaching and Cultural Orientation for ITAs (3)
- CHANGE:** ~~ENGL 086~~. Orientation/Amer. Higher Educational System (3)
TO: DAS 186. Orientation/Amer. Higher Educational System (3)
- CHANGE:** ~~ENGL 087~~. Exploration of American Culture (3)

TO: DAS 187. Exploration of American Culture (3)

NOTE: All course descriptions remain unchanged.

RATIONALE: Courses in the ELP are service courses for non-native speakers from across the entire university. They have no direct connection with the English department. Therefore a college (DAS) designation is more appropriate than an English (ENGL) designation.

EFFECTIVE DATE: Summer 2004

Division of Biology

ADD: **BIOL 818. Advanced Aquatic Ecology.** (3) I, in odd years. A study of advanced issues and methodology in limnological sciences, including a workshop on algal taxonomy, and an applied group project. Two lecture hours, two laboratory hours per week.

RATIONALE: This is a course in general aquatic ecology for graduate students in Biology and other departments.

EFFECTIVE DATE: Fall 2005

ADD: **BIOL 886. Confocal, Fluorescence and Light Microscopy.** (3) I, in odd years. An introduction to theories, functions and applications of confocal, fluorescence and light microscopy, and fluorescent molecules. Lab emphasis on students working on independent research projects requiring microscopy. Two hours of lecture and three hours of lab per week. Pr.: consent of instructor.

RATIONALE: Advanced Topics in Biology, BIOL 890 (Confocal Microscopy), was offered in the fall of 1999, 2001, and 2003. The first year that this class was taught, a total of 8 students completed the course. All of the comments from the students indicated that this class benefited their graduate research projects; however, a smaller class size of 6 might have increased their access to equipment and the instructor. In 2001 and 2003, the class size was limited to 6 students. This allowed students more hands-on-time on the microscopes, processing equipment, and time with the instructor. Positive feedback and encouragement from students to make this a regularly scheduled course have been received.

EFFECTIVE DATE: Fall 2005

CHANGE: **BIOL 888. Electron Microscopy Techniques.** (3) II. Theory and techniques involved in using the transmission electron microscope for the study of biological materials. Includes individualized instruction on the operation of the Philips 201 electron microscope and techniques for processing biological samples. Pr.: Current participation in research requiring electron microscope and consent of instructor.

TO: **BIOL 888. Electron Microscopy Techniques.** (3) I, in even years. Theory and techniques involved in using the transmission electron microscope for the study of biological materials. Includes individualized instruction on the operation of the Philips 201 electron microscope and techniques for processing biological samples. Pr.: Current participation in research requiring electron microscope and consent of instructor.

RATIONALE: Change to fit teaching schedule of instructor and to optimize enrollment in this course.

EFFECTIVE DATE: Fall 2004

Department of English

CHANGE: **ENGL 430. The Structure of English.** (3) I, II. Systematic study of the structure of the English language and a consideration of the current theories of analysis: traditional, structural, and transformational-generative. ~~Primarily for candidates for secondary certification in English or for elementary language arts majors.~~ Pr.: ENGL 125 or 200.

TO: **ENGL 430. The Structure of English.** (3) I, II. Systematic study of the structure of the English language and a consideration of the current theories of analysis: traditional, structural, and transformational-generative. Pr.: ENGL 125 or 200.

RATIONALE: Candidates for secondary certification in English or for elementary language arts no longer take ENGL 430.

EFFECTIVE DATE: N/A

CHANGE: **ENGL 476. American English.** (3) I, II. A systematic study of the English language as it has been and is spoken in the continental United States. Topics may include Tall Talk, Americanisms, Colonial and Modern dialects, and American dictionaries. Pr.: ENGL 125 or 200.

TO: **ENGL 476. American English.** (3) I, II. Systematic study of the English language as it has been and is spoken in the continental United States. Topics may include Tall Talk, Americanisms, Colonial and Modern dialects, and American dictionaries. Pr.: ENGL 125 or 200.

RATIONALE: Making course description consistent with other catalog course descriptions.

EFFECTIVE DATE: N/A

CHANGE: **ENGL 801. Graduate Studies in English.** (1) I, II, S. A survey of the methods and aims of advanced level research and scholarship in language and literature. ~~Required~~ in the first year of study toward the M.A. in English as an orientation to the profession.

TO: **ENGL 801. Graduate Studies in English.** (1) I, II, S. A survey of the methods and aims of advanced level research and scholarship in language and literature. Taken in the first year of study toward the M.A. in English as an orientation to the profession.

RATIONALE: Course is no longer required for all English Master's candidates.

EFFECTIVE DATE: N/A

DROP: ~~**ENGL 897. Colloquium in English.** (3) I. Discussion of selected literary topics related to the M.A. examination in English. Pr.: Second year standing in the M.A. program.~~

RATIONALE: Because the M.A. Exam system has been revised, this course is no longer necessary.

EFFECTIVE DATE: N/A

DROP: ~~**ENGL 999. Research in English.** (Var.) I, II, S. Pr.: Sufficient training to carry on the research undertaken for dissertation. Pr.: Permission, Director of Graduate Studies.~~

RATIONALE: Necessary course for the Ph.D. This degree program has been discontinued.

EFFECTIVE DATE: N/A

ENGLISH LANGUAGE PROGRAM

ADD: **DAS 182. Introduction to American Academic Research Writing for International Students.** (1) I, II, S. Introduction to American conventions of research paper writing with emphasis on American academic standards. Pr.: Permission by the English Language Program.

RATIONALE: The purpose of the course is to help students practice and understand the importance of the skills of paraphrasing, summarizing, citation, and quotation. In addition, students will acquire a vocabulary that can be used in writing from sources and about statistics. Students will also learn to recognize and use a register appropriate to research writing.

EFFECTIVE DATE: Summer 2004

ADD: **DAS 183. Introduction to American Academic Presentation for International Students.** (1) I, II, S. Introduction to American rhetorical patterns of academic speaking, focusing specifically on deductive and inductive organization patterns and expectations of American audiences. Pr.: Permission by the English Language Program.

RATIONALE: The purpose of the course is to help international students identify the appropriate rhetorical styles and conventions in giving academic presentations. The course will also include the verbal and nonverbal skills necessary to communicate effectively with native speakers of English and will help the international student to identify the correct register for these presentations.

EFFECTIVE DATE: Summer 2004

ADD: **DAS 184. Practical Training in ESL.** (1-2) I, II. Introduction to practical classroom skills for the non-education major planning to teach ESL abroad as part of a Study Abroad or Internship Abroad experience. Pr.: Permission by the English Language Program.

RATIONALE: Non-education majors going abroad are many times asked to take part in ESL class activities as native speakers. Most do not have any experience or background in teaching, let alone teaching ESL. The purpose of the course is to give very practical experience to students who might be taking part in ESL activities abroad through a series of discussions, observations, and practical training in an ESL classroom setting.

EFFECTIVE DATE: Summer 2004

Department of Geography

CHANGE: ♦ **GEOG 220. Environmental Geography I.** (4) I, II. A basic physical geography course emphasizing the atmosphere, weather, climate, and the biosphere. Includes human modification of atmospheric conditions, climate change, severe storms, and the association between global climate and plant distributions. Introduces map use, including isopleth and weather maps. Three hours lec. and one two-hour lab a week.

TO: ♦ **GEOG 321. Environmental Geography II.** (4) I, II. A basic physical geography course emphasizing the atmosphere, weather, climate, and the biosphere. Includes human modification of atmospheric conditions, climate change, severe storms, and the association between global climate and plant distributions. Introduces map use, including isopleth and weather maps. Students who have taken GEOG 220 may not enroll in GEOG 321. Three hours lec. and one two-hour lab a week. Pr.: GEOG 221 and MATH 100.

RATIONALE: The material covered in this course has always been more difficult for students to understand and apply than that covered in the current GEOG 221. Moving the class to the 300-level and adding MATH 100 as a prerequisite better reflects the nature of the course material. Finally, placing the atmosphere and climate materials in the second course of a two-course sequence falls in line with most American and Canadian geography departments that offer introductory physical/environmental geography in a two-course sequence.

EFFECTIVE DATE: Fall 2005

CHANGE: .. **GEOG 221. Environmental Geography II.** (4) I, II. A basic physical geography course emphasizing the geosphere and hydrosphere, including the processes, patterns, and physical background for related issues such as natural hazards and human modification of physical conditions. Introduces remote sensing and the use of topographic maps in environmental study. Three hours lec. and one two-hour lab per week. ~~Pr.: Environmental Geography I.~~

TO: ♦ **GEOG 221. Environmental Geography I.** (4) I, II. A basic physical geography course emphasizing the geosphere and hydrosphere, including the processes, patterns, and physical background for related issues such as natural hazards and human modification of physical conditions. Introduces remote sensing and the use of topographic maps in environmental study. Three hours lec. and one two-hour lab per week.

RATIONALE: The material taught in GEOG 221 is generally easier for students to understand than the material taught in the current GEOG 220. For that reason, we are changing the current GEOG 220 to GEOG 321 and renaming the course Environmental Geography II. With that change, the name of the current GEOG 221 (Environmental Geography II) changes to Environmental Geography I.

EFFECTIVE DATE: Fall 2005

CHANGE: ♦ **GEOG 535. Fundamentals of Climatology.** (3) II. An examination of climatology on global, regional, and local scales, with emphasis on the physical processes and environmental factors that influence and control climate. Climatic change and its impact on human activities are explored. Pr.: ~~GEOG 220 and MATH 100.~~

TO: ♦ **GEOG 535. Fundamentals of Climatology.** (3) II. An examination of climatology on global, regional, and local scales, with emphasis on the physical processes and environmental factors that influence and control climate. Climatic change and its impact on human activities are explored. Pr.: GEOG 321.

RATIONALE: The change in prerequisites reflects a change in course number and prerequisites for the relevant Environmental Geography class (now GEOG 321).

EFFECTIVE DATE: Fall 2005

ADD: **GEOG 690. Historical Geography of the United States.** (3) S. Interpretation and analysis of the American landscape and its regions from c. 1500 to c. 1950, with particular emphasis on landscape as both place and history. Also introduces and examines such current research topics as identity, contested places, landscape-as-text, and cultural politics. This is a seminar course. Pr.: GEOG 100 and one course in American history.

RATIONALE: Historical geography is an important geographic specialization and its research areas are closely tied to cultural geography, an expanding sub discipline in our department.

EFFECTIVE DATE: Spring 2005

CHANGE: **GEOG 709. Geographic Field Research Techniques.** (2-3) S. Explores methods and techniques employed in modern field research. Stresses research design, field data acquisition techniques, and data analysis. Pr.: ~~GEOG 220, 221 and 440.~~

TO: **GEOG 709. Geographic Field Research Techniques.** (2-3) S. Explores methods and techniques employed in modern field research. Stresses research design, field data acquisition techniques, and data analysis. Pr.: junior standing and at least 6 hours in geography.

RATIONALE: With the retirement of Dr. Charles Bussing a number of years ago, GEOG 709 is now taught by Dr. Jeffrey Smith. The change better reflects the desired background that Dr. Smith would like students to have.

EFFECTIVE DATE: Fall 2005

CHANGE: **GEOG 790. Seminar in ~~Cultural-Economic~~ Geography.** (1-3) Pr.: Consent of instructor.

TO: **GEOG 790. Seminar in Geography.** (1-3) Pr.: Consent of instructor

RATIONALE: GEOG 790 (Seminar in Cultural-Economic Geography) has been an infrequently used course number, in part because of its specificity. By making the course title more general, we are more likely to use GEOG 790 for new seminar topics.

EFFECTIVE DATE: Fall 2005

CHANGE: ~~ANTH 522. **Special Topics in Anthropology.** (1-4) On sufficient demand. Variable topics within cultural anthropology, linguistic anthropology, archaeology, or physical anthropology. Pr.: Consent of instructor.~~

TO: **ANTH 521. Topics in Archaeology.** (1-4) On sufficient demand. Intensive exploration of archaeological problems for both majors and non-majors with adequate background. Pr: ANTH 260.

RATIONALE: To clearly allocate student credit in upper-level courses as required by the major, we need separate numbers for topics courses given in the four distinct subfields of anthropology.

EFFECTIVE DATE: Fall 2004 (on sufficient demand)

CHANGE: ~~ANTH 522. **Special Topics in Anthropology.** (1-4) On sufficient demand. Variable topics within cultural anthropology, linguistic anthropology, archaeology, or physical anthropology. Pr.: Consent of instructor.~~

TO: **ANTH 522. Topics in Cultural Anthropology.** (1-4) On sufficient demand. Intensive exploration of problems in cultural anthropology for both major and non-majors with adequate background. Pr.: ANTH 200 or 204.

RATIONALE: To clearly allocate student credit in upper-level courses as required by the major, we need separate numbers for topics courses given in the four distinct subfields of anthropology.

EFFECTIVE DATE: Fall 2004 (on sufficient demand)

CHANGE: ~~ANTH 522. **Special Topics in Anthropology.** (1-4) On sufficient demand. Variable topics within cultural anthropology, linguistic anthropology, archaeology, or physical anthropology. Pr.: Consent of instructor.~~

TO: **ANTH 523. Topics in Linguistic Anthropology.** (1-4) On sufficient demand. Intensive exploration of linguistic anthropology for both majors and non-majors with adequate background. Pr.: ANTH 220.

RATIONALE: To clearly allocate student credit in upper-level courses as required by the major, we need separate numbers for topics courses given in the four distinct subfields of anthropology.

EFFECTIVE DATE: Fall 2004 (on sufficient demand)

CHANGE: ~~ANTH 522. **Special Topics in Anthropology.** (1-4) On sufficient demand. Variable topics within cultural anthropology, linguistic anthropology, archaeology, or physical anthropology. Pr.: Consent of instructor.~~

TO: **ANTH 530. Topics in Physical Anthropology.** (1-4) On sufficient demand. Intensive exploration of problems in physical anthropology for both majors and non-majors with adequate background. Pr.: ANTH 280 and 281.

RATIONALE: To clearly allocate student credit in upper-level courses as required by the major, we need separate numbers for topics courses given in the four distinct subfields of anthropology.

EFFECTIVE DATE: Fall 2004 (on sufficient demand)

Department of Speech Communications, Theatre and Dance

ADD: **◆ SPCH 535. Communication and Leadership** (3) In alternate years. A study of the ways leadership in differing contexts is defined and exercised through communication. Constructs examined may include credibility, charisma, vision, power, myth, and public memory. Pr.: SPCH 105 or 106.

RATIONALE: The proposed course meets the need for an undergraduate level course suitable for majors and non-majors enrolled in the Leadership Studies Program.

EFFECTIVE DATE: Fall 2004

NOTE: The College of Arts and Sciences Course and Curriculum committee is forwarding the following courses to the UGE Council based on the academic merits, with the expectation that the Council will scrutinize the course for General Education criteria:

ADD: **SPCH 734. The Rhetoric of Social Movements.** (3). Study of the theory and criticism of social movement rhetoric. Topics may include the development of movement studies as a distinct genre of scholarship within the field of speech communication, questions and controversies in the rhetorical study of movements, and the rationale for protest tactics, from nonviolence to terrorism. Pr. SPCH 330, 331, or graduate standing.

RATIONALE: The theory and criticism of social movement rhetoric is an area of longstanding interest within the academic discipline of speech communication. It is important for graduate students in the field to be exposed to the research literature in this area.

EFFECTIVE DATE: Fall 2004

Women's Studies Program

CHANGE: ~~**WOMST 500. Topics in Women's Studies:** (3). A study of the history and sources of Islam with particular reference to women in a variety of cultures, ranging from South east Asia, Africa, the Middle East to the Western World. Half of the course will consist of case studies and include videotaped interviews with Muslim women on the importance of Islam in their everyday lives and the challenges they face. A visit to the local mosque and interactions with local Muslim women will be mandatory.~~

TO: **WOMST 585. Women and Islam.** (3), Intersession only. A study of the history and sources of Islam with particular reference to women in a variety of cultures, ranging from Southeast Asia, Africa, and the Middle East to the Western World.

RATIONALE: This course is one of several upper-level Women's Studies courses from which majors choose to complete the degree requirements. Taught as a "Topics" course during Intersession, it has been very well received and we want to make it a regular course with its own number.

The course is appropriate for International Overlay as about 80% of the material is international: the Middle East, Asia and North Africa. In addition, the course encourages the students to see connections between their own society's assumptions and those studied in the course material; students critically examine their own assumptions and learn to step outside their own boundaries in order to reach a deeper level of understanding of both Islam as a major world tradition and Muslim Women as having their own understanding of what womanhood and freedom mean.

EFFECTIVE DATE: May 2004

CURRICULUM CHANGES

University Undergraduate Studies

(page 96, undergraduate catalog)

CHANGE:

Life sciences

Life science is a multidisciplinary major that deals with studies of living organisms and life processes.

BIOL 198	Principles of Biology.....	4
BIOL 201	Organismic Biology	5
BIOCH 265	Introductory Organic and Biochemistry.....	5
or		
CHM 350/351	General Organic Chemistry and Lab.....	5
BIOL 455	Microbiology	4
ANTH 280/281	Intro. to Physical Anthropology and Lab.....	4
	Psychology course with prerequisite.....	3
	Electives.....	14*

*The 14 elective hours must be at or above the 300 level and they must be selected from two or more of the following fields: biochemistry, biology, microbiology, organic chemistry, physical anthropology, and psychology. A minimum of 15 hours in the major must be taken from K-State. Only transfer courses accepted by departments to meet requirements in their majors will be accepted to meet requirements in the life science major. To obtain a life science degree a student must earn at least a 2.0 GPA in the required science courses (including transfer work).

The life science degree is not available to students who will earn a degree in biochemistry, biology, microbiology, pre-dentistry and pre-medicine.

TO:

Life sciences

Life science is a multidisciplinary major that deals with studies of living organisms and life processes.

BIOL 198	Principles of Biology.....	4
BIOL 201	Organismic Biology	5
BIOCH 265	Introductory Organic and Biochemistry.....	5
or		
CHM 350/351	General Organic Chemistry and Lab.....	5
BIOL 455	Microbiology	4
ANTH 280/281	Intro. to Physical Anthropology and Lab.....	4
	Psychology course with prerequisite.....	3
	Electives.....	14*

*The 14 elective hours must be at or above the 300 level and they must be selected from two or more of the following fields: biochemistry, biology, microbiology, organic chemistry, physical anthropology, and psychology. A minimum of 15 hours in the major must be taken from K-State. Only transfer courses accepted by departments to meet requirements in their majors will be accepted to meet requirements in the life sciences major. To obtain a life sciences degree a student must earn at least a 2.0 GPA in the required science courses (including transfer work).

The life sciences degree is not available to students who will earn a degree in biochemistry, biology, microbiology, pre-dentistry or pre-medicine.

Pre-vet option

Students who complete the College of Arts and Sciences basic requirements, the pre-veterinary prerequisites, all the life sciences major requirements except the electives, and a minimum of 84 hours prior to matriculating to the College of Veterinary Medicine at K-State, may earn a life sciences degree after successful completion of the first year of veterinary medical school.

RATIONALE: A recent Board of Regents decision to eliminate the Arts and Sciences Veterinary Medicine Bachelors degree precipitated the development of this alternative. A similar option in the College of Agriculture exists for students who complete their pre-veterinary studies through that college. The Board of Regents left that degree in place. Students doing pre-veterinary studies through the College of Arts and Sciences should have a comparable option. This is an improvement because, unlike the previous option, it requires students to complete all of the Basic Requirements for a degree in the College of Arts and Sciences, and the degree may be awarded after the first rather than the second successful year of coursework as a veterinary medical student.

EFFECTIVE DATE: Option available to students entering K-State in the Fall 2004 semester.

Division of Biology

University Undergraduate and Graduate Studies

ADD:

Concurrent B.S. and M.S. degree program in Biology

The combined B.S./M.S. program in Biology provides exceptional undergraduates with the opportunity to obtain both a Bachelor of Science and a Master of Science in 5 years, a shorter time than typically required to earn a B.S. plus M.S. if both degrees are pursued separately.

The goal of the program is to produce biologists with in-depth understanding of a sub-area of biology and extensive laboratory research experience. The curriculum will include both course work and research experience. Completion of the program will provide students with an advantage both in pursuing work in the private sector and in pursuing a further advanced degree.

To enter this program, a student must be nominated by a Biology graduate faculty member (who will be the student's major professor) at any time from the second semester of the sophomore year through the second semester of the junior year (when he/she has accumulated 45-90 credit hours toward the B.S. degree and has completed BIOL 201 or BIOL 455 and BIOL 450 or BIOL 529, his/her math requirement, and at least two semesters of chemistry). A student may be nominated during the senior year with special permission from the chair of the Biology Graduate Affairs Committee. After nomination, the application process is the same as for the traditional M.S. degree, with the following exceptions.

1. Completion of a bachelor's degree is not required prior to acceptance into the program
2. The GRE score requirement will be waived.
3. The application must include a recommendation from a member of the Division of Biology faculty, who will serve as the student's major professor and who agrees to support the student as a graduate research assistant during the 5th year.
4. Minimum standards for regular admission and for retention in the program require a cumulative G.P.A. of 3.5 and a G.P.A. of 3.5 in required math and science courses.

Should the student meet these requirements and the requirements of the Graduate Affairs Committee, admission will be provisional, pending the award of the B.S. degree. The B.S. degree may be awarded at any time following the completion of the undergraduate degree requirements. Alternatively, the B.S. and M.S. degrees may be awarded concurrently.

The student will work closely with the major professor to form a supervisory committee and file a program of study by the end of the second semester of the junior year. The undergraduate advisor will continue to advise the student in academic progress toward the B.S. degree, and the major professor will supervise the student's academic progress and research project for the M.S. degree. Research toward the M.S. thesis will begin as soon as possible, but typically will begin during the junior year.

RATIONALE: This is a new program. The rationale is addressed in the second paragraph of the description.

EFFECTIVE DATE: Fall 2004

Department of Geography

University Undergraduate Studies

(pg.113, undergraduate catalog)

CHANGE:

Geography (B.A or B.S)

Students may pursue a traditional major in geography, a geography minor, or choose the geography pre-planning option. The bachelor of science or the bachelor of arts degree may be earned.

Requirements for the major in geography:

GEOG 100	World Regional Geography	3
GEOG 200	Human Geography	3
GEOG 220	Environmental Geography I	4
GEOG 224	Environmental Geography II	4
GEOG 302	Cartography and Thematic Mapping	3
GEOG 495	Capstone Seminar in Geography 2	
GEOG 508	Geographic Information Systems I	3

One course in human-environment interaction: (GEOG 440, 718, 720, 725, 760, 765, or 770) 3

Geography Electives (3 hours must be at the 700 level: GEOL 520 may be used as an elective) 12

Total credit hours required 37

TO:

Geography (B.A or B.S)

Students may pursue a traditional major in geography, a geography minor, or choose the geography pre-planning option. The bachelor of science or the bachelor of arts degree may be earned.

Requirements for the major in geography:

GEOG 100	World Regional Geography	3
GEOG 200	Human Geography	3
GEOG <u>221</u>	Environmental Geography I	4
GEOG <u>321</u>	Environmental Geography II	4
GEOG 302	Cartography and Thematic Mapping	3
GEOG 495	Capstone Seminar in Geography 2	
GEOG 508	Geographic Information Systems I	3

One course in human-environment interaction: (GEOG 440, 718, 720, 725, 760, 765, or 770) 3

Geography Electives (3 hours must be at the 700 level: GEOL 520 may be used as an elective) 12

Total credit hours required 37

RATIONALE: Changes to GEOG 221 and the addition of GEOG 321 reflect changes made to the two-course Environmental Geography sequence.

EFFECTIVE DATE: Fall 2005

Department of Geography

University Undergraduate Studies

(page 113, undergraduate catalog)

CHANGE:

Geography minor

GEOG 100	World Regional Geography	3
	or	
GEOG 200	Human Geography	3
GEOG 220	Environmental Geography I	4
GEOG 440	Geography of Natural Resources	3
	or	
GEOG 450	Geography of Economic Behavior	3

At least two additional geography courses at the ~~500~~ level and above 6

Total credit hours required 16

TO:

Geography minor

GEOG 100	World Regional Geography	3
	or	
GEOG 200	Human Geography	3
GEOG <u>221</u>	Environmental Geography I	4
GEOG <u>302</u>	Cartography and Thematic Mapping	3

At least two additional geography courses at the 400 level and above 6

Total credit hours required 16

RATIONALE: Changes to the Geography minor fall in line with changes we made last spring to the Geography major. The new minor also provides a balance by requiring students to have one course each in human geography, physical geography, and geographic techniques.

EFFECTIVE DATE: Fall 2005

Department of Geography

University Undergraduate Studies

ADD:

Certificate in Geographic Information Systems (18 hours)

Course requirements for the Undergraduate GIS Certificate:

GEOG 302 Cartography and Thematic Mapping (3)

GEOG 508 Geographic Information Systems I (3)

GEOG 702 Computer Mapping and Geog Visualization (3)

GEOG 705 Remote Sensing of the Environment (3)

GEOG 708 Geographic Information Systems II (3)

One additional class with 50% or more GIS content (3)

RATIONALE: Geographic Information Systems (GISs) are a combination of computer hardware and software that store, manage, analyze, and display (map) spatial information and related data. It has been said that "GISs are simultaneously the telescope, the microscope, the computer, and the Xerox machine of regional analysis and synthesis of spatial data" (Abler 1988). GISs has many applications in land use planning, natural resource management, business, etc. and GIS is a very rapidly expanding business sector. The Undergraduate Certification in Geographic Information Systems, as distinct from the Minor in Geography, is focused on meeting the needs of students who want to acquire grounding in geospatial analytical tools (cartography, remote sensing, and GIS). The Certificate is designed to help students prepare for an entry-level position in the private sector or government.

EFFECTIVE DATE: Fall 2005

