

COLLEGE OF ARTS AND SCIENCES
COURSE AND CURRICULUM CHANGES

approved at the College faculty meeting

February 9, 2006

Waters 231

4:00 p.m.

Undergraduate/Graduate

Contact Person: Larry Rodgers
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**Units outside the college which may be directly
impacted by these changes are:
College of Education**

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

COURSE CHANGES*Department of Aerospace Studies*

CHANGE: ◆~~AERO 310. The Professional Officer 3A.~~ (3) I. A study of USAF professionalism, leadership, and management. Includes the meaning of professionalism, professional responsibilities, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls. Three hours of class a week.

TO: ◆**AERO 310. Officer Leadership Studies 3A.** (3) I. A study of USAF professionalism, leadership, and management. Includes the meaning of professionalism, professional responsibilities, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls. Three hours of class a week.

RATIONALE: Descriptions changed to reflect course material

EFFECTIVE DATE: Fall 2006

CHANGE: ◆~~AERO 311. The Professional Officer 3B.~~ (3) II. Continuation of AERO 310. Three hours of class a week.

TO: ◆**AERO 311. Officer Leadership Studies 3B.** (3) II. Continuation of AERO 310. Three hours of class a week.

RATIONALE: Descriptions changed to reflect course material

EFFECTIVE DATE: Fall 2006

CHANGE: **AERO 410. Aerospace Studies 4A.** (3) I. This course will examine the role of the professional officer in a democratic society; socialization processes within the armed services; the requisites for maintaining adequate national security forces; political, economic, and social constraints upon the overall defense policy-making process. Three hours a week.

TO: **AERO 411. Aerospace Studies/Civil military relationships.** (3) I. This course will examine the role of the professional officer in a democratic society; socialization processes within the armed services; the requisites for maintaining adequate national security forces; political, economic, and social constraints upon the overall defense policy-making process. Three hours a week.

RATIONALE: Descriptions changed to reflect course material

EFFECTIVE DATE: Fall 2006

CHANGE: **AERO 441. Aerospace Studies 4B.** (3) II. Focusing on the armed forces as an integral element of society, this course provides an examination of the broad range of American civil-military relations and the environmental context in which defense policy is formulated. Communicative skills are stressed. The role of contemporary aerospace power, and current and future employment of aerospace forces will also be examined. The last portion of this course concentrates on preparation for active duty military service. Three hours of class a week.

TO: **AERO 410. Aerospace Studies/Regional studies, defense policy.** (3) II. Focusing on the armed forces as an integral element of society, this course provides an examination of the broad range of American civil-military relations and the environmental context in which defense policy is formulated. Communicative skills are stressed. The role of contemporary aerospace power, and current and future employment of aerospace forces will also be examined. The last portion of this course concentrates on preparation for active duty military service. Three hours of class a week.

RATIONALE: Descriptions changed to reflect course material

EFFECTIVE DATE: Fall 2006

Department of Art

DROP: ~~ART 572. 20th Century Formal Aspects of Painting. (3) I,II. Studio projects exploring objective to non-objective approaches. Includes historical sources of modern abstract painting including Fauvism, cubism, constructivism, expressionism with emphasis on development of American abstract expressionism. Pre.: ART 245.~~

RATIONALE: To streamline course offerings, selected content from this course will be folded into the newly revised ART 650: Advanced/Senior Painting Studio (approved earlier this fall).

EFFECTIVE DATE: Spring 2006

CHANGE: **ART 611. Digital Photography and Advanced Techniques.** (3) I, II. Introduction to the principles and aesthetics of digital image processing as well as continued exploration of chemical photography techniques. May be repeated for credit. Pr.: ART 400 and ~~572~~.

TO: **ART 611. Digital Photography and Advanced Techniques.** (3) I, II. Introduction to the principles and aesthetics of digital image processing as well as continued exploration of chemical photography techniques. May be repeated for credit. Pr.: ART 400 and 563.

RATIONALE: ART 572 20th Century Formal Aspects of Painting is a painting course and should have never been a prerequisite for ART 611 prerequisite.

EFFECTIVE DATE: Fall 2006

CHANGE: ~~ART 825. Seminar in Art.~~ (3) I, II. Selected topics dealing with career preparation skills such as developing a professional and teaching portfolio, computer techniques for promoting one's art, establishing relationships with galleries/museums, basic techniques of exhibition design and installation, techniques of critiquing works of art, etc. Pr.: Graduate standing.

TO: **ART 825. Professional Practices.** (3) I, II. Selected topics dealing with career preparation skills such as developing a professional and teaching portfolio, computer techniques for promoting one's art, establishing relationships with galleries/museums, and agencies, basic techniques of exhibition design and installation, techniques of critiquing works of art, etc. Pr.: Graduate standing.

RATIONALE: To better reflect current course content.

EFFECTIVE DATE: Fall 2006

Department of Biology

CHANGE: **BIOL 696. Fisheries Management.** (4) I, in even years. Historical and contemporary issues in the management and conservation of exploited fishes. Methods for managing fisheries resources in streams, lakes, and ponds including estimating abundances, quantifying age and growth, manipulating populations, modeling population dynamics, culturing fishes, and improving aquatic habitat. Three hours lec. And three hours lab per week. Pr.: BIOL 430.

TO: **BIOL 696. Fisheries Management and Techniques.** (4) I, in even years. Historical and contemporary issues in the management and conservation of exploited fishes. Methods for managing fisheries resources in streams, lakes, and ponds including estimating abundances, quantifying age and growth, manipulating populations, modeling population dynamics, culturing fishes, and improving aquatic habitat. Three hours lec. And three hours lab per week. Pr.: BIOL 201.

RATIONALE: BIOL 430 was dropped years ago and BIOL 201 should replace it as the pre-requisite for this course.

EFFECTIVE DATE: Fall 2006

Department of Chemistry

CHANGE: ♦**CHM 210. Chemistry I.** (4) I, II, S. First course of a two-semester study of the principles of chemistry and the properties of the elements and their compounds. Three hours lec. and three hours lab a week. Pr.: One year of high school chemistry and MATH 100 (or two years of high school algebra).

TO: ♦**CHM 210. Chemistry I.** (4) I, II, S. First course of a two-semester study of the principles of chemistry and the properties of the elements and their compounds. Conc. enrollment in CHM 210 lab is required. Three hours lec. and three hours lab a week. Pr.: One year of high school chemistry and MATH 100 (or two years of high school algebra).

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: ♦**CHM 220. Chemical Principles I.** (5) I. First course of a two-semester study of chemical principles. For students in curricula with a major emphasis in chemistry. Four hours lec. and three hours lab a week. Pr.: High school chemistry (one year) and algebra (one and one half years).

TO: ♦**CHM 220. Chemical Principles I.** (5) I. First course of a two-semester study of chemical principles. For chemistry majors. Conc. enrollment in CHM 220 lab is required. Four hours lec. and three hours lab a week. Pr.: One year of high school chemistry and MATH 100 (or two years of high school algebra).

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: ♦**CHM 230. Chemistry II.** (4) I, II, S. Second course of a two-semester study of the principles of chemistry and the properties of the elements and their compounds. Three hours lec. and three hours lab a week. Pr.: CHM 210.

TO: ♦**CHM 230. Chemistry II.** (4) I, II, S. Second course of a two-semester study of the principles of chemistry and the properties of the elements and their compounds. Conc. enrollment in CHM 230 lab is required. Three hours lec. and three hours lab a week. Pr.: CHM 210.

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: ♦**CHM 250. Chemical Principles II.** (5) II. Continuation of CHM 220, covering the principles of chemistry. Laboratory has emphasis on quantitative chemical analysis. Three hours lec. and ~~six~~ hours lab a week. Pr.: CHM 220.

TO: ♦ **CHM 250. Chemical Principles II.** (5) II. Continuation of CHM 220, covering the principles of chemistry. For chemistry majors. Conc. enrollment in CHM 250 lab is required. Laboratory has emphasis on quantitative chemical analysis. Three hours lec. and five hours lab a week. Pr.: CHM 220.

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: **◆CHM 315. Environmental Science: A Chemistry Perspective.** (3) I. An analysis of important technological developments and their impact on society and on the earth's environment; ethical issues raised by technological advances. History, matter and energy, ecosystems, population issues, air pollution, water pollution, hazardous substances, environmental policies, and decision making are discussed. Pr.: CHM 230.

TO: **◆ CHM 315. Environmental Science: A Chemistry Perspective.** (3) I. An analysis of important technological developments and their impact on society and on the earth's environment; ethical issues raised by technological advances. History, matter and energy, ecosystems, population issues, air pollution, water pollution, hazardous substances, environmental policies, and decision making are discussed. Pr.: CHM 230 or CHM 250.

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 371. Chemical Analysis.** (4) I. Principles of chemical equilibria and quantitative analysis: gravimetric, titrimetric, spectrophotometric, electroanalytical, and separations methods. Two hours lec. and ~~six~~ hours lab a week. Pr.: CHM 230.

TO: **CHM 371. Chemical Analysis.** (4) I. Principles of chemical equilibria and quantitative analysis: gravimetric, titrimetric, spectrophotometric, electroanalytical, and separations methods. Two hours lec., one hour rec., and five hours lab a week. Pr.: CHM 230.

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 566. Instrumental Methods of Analysis.** (3) I. Introduction to theory and practice of electrochemical methods, molecular and atomic spectroscopy, surface science, mass spectrometry, separation methods, and electronics in analytical chemistry. Three hours lec. a week. Pr.: CHM 531 and either CHM 500 or 585.

TO: **CHM 566. Instrumental Methods of Analysis.** (3) I. Introduction to theory and practice of electrochemical methods, molecular and atomic spectroscopy, surface science, mass spectrometry, separation methods, and electronics in analytical chemistry. Three hours lec. a week. Pr.: CHM 250 or CHM 371; CHM 531; and CHM 500 or CHM 585.

RATIONALE: Minor description clarification for new catalog printing

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 596. Physical Methods Laboratory.** (1-2) II. Experiments that relate to physical and instrumental methods. Three to six hours lab a week. Pr.: MATH 221, PHYS 114 or 214.

TO: **CHM 596. Physical Methods Laboratory.** (1-2) II. Experiments that relate to physical and instrumental methods. Three to six hours lab a week. Pr.: CHM 566 and MATH 221 and PHYS 114 or PHYS 214.

RATIONALE: Prerequisite change to reflect the fact that this laboratory is allied with CHM 566 Instrumental Methods of Analysis.

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 599. Senior Thesis Research.** (1-3) I, II, S. Analytical inorganic, organic, or physical chemistry. A final written report is required. Pr.: ~~CHM 585~~ and consent of instructor.

TO: **CHM 599. Senior Thesis Research.** (1-3) I, II, S. A final written report and oral presentation are required. Pr.: Consent of instructor.

RATIONALE: Minor description change for new catalogue printing

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 601. Safe Chemical Laboratory Practices.** (1) I. A general safety course for persons working or teaching in a chemical laboratory. One hour lec. per week. Pr.: ~~CHM 374 and 350 or equiv.~~

TO: **CHM 601. Safe Chemical Laboratory Practices.** (1) I. A general safety course for persons working or teaching in a chemical laboratory. One hour lec. per week. Pr.: Consent of instructor.

RATIONALE: Prerequisite change to reflect the fact that this course is taken by all chemistry students (undergraduates and graduate students) as they begin their research and/or teaching experiences. "Permission of instructor" is used because the precise point at which chemistry students become eligible or required to enroll in this course cannot be determined.

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 650. History of Chemistry.** (2) II, in even years. Traces the beginnings of chemistry from 3500 B.C. to 1920 A.D. Early metallurgy, Greek thought about atoms, alchemy, atomic theory, discovery of gases, definition of elements, chemical bonds, organic, inorganic, and physical chemistry. Pr.: ~~CHM 585~~.

TO: **CHM 650. History of Chemistry.** (2) II, in even years. Traces the beginnings of chemistry from 3500 B.C. to 1920 A.D. Early metallurgy, Greek thought about atoms, alchemy, atomic theory, discovery of gases, definition of elements, chemical bonds, organic, inorganic, and physical chemistry. Pr.: CHM 230 or CHM 250.

RATIONALE: Change in prerequisite to better reflect the background needed for the course.

EFFECTIVE DATE: Spring 2007

CHANGE: **CHM 657. Inorganic Techniques.** (1-2) I. The preparation, characterization, and study of transition metal, main group, and organometallic compounds using techniques commonly encountered in industrial and academic research. ~~Three to six hours lab a week~~. Pr.: CHM 585.

TO: **CHM 657. Inorganic Techniques.** (1-2) I. The preparation, characterization, and study of transition metal, main group, and organometallic compounds using techniques commonly encountered in industrial and academic research. One hour lec. and three hours lab a week. Pr.: CHM 585.

RATIONALE: Description change that reflects the revamping of this course.

EFFECTIVE DATE: Spring 2007

CHANGE: **CHM 700. Practicum in Teaching Chemistry.** (1) I. Principles and methods of instruction in laboratories and recitation classes in chemistry, including one semester of supervised experience as an instructor in a chemical laboratory. This is a required course of all graduate teaching assistants in the Department of Chemistry. May be taken only once for credit. Pr.: Senior standing in chemistry.

TO: **CHM 700. Practicum in Teaching Chemistry.** (1) I. Principles and methods of instruction in laboratories and recitation classes in chemistry, including one semester of supervised experience as an instructor in a chemical laboratory. This is a required course of all graduate teaching assistants in the Department of Chemistry. May be taken only once for credit. Pr.: Senior standing in chemistry or consent of instructor.

RATIONALE: Minor prerequisite addition/clarification. "Consent of instructor" added in order to accommodate occasional non-chemists who participate in this program.

EFFECTIVE DATE: Fall 2006

CHANGE: **CHM 752. Advanced Organic Chemistry.** (3) I. Advanced study of organic compounds and fundamental types of reactions. Three hours lec. a week. Pr.: CHM 550 and 595.

TO: **CHM 752. Advanced Organic Chemistry.** (3) I. Advanced study of organic compounds and fundamental types of reactions. Three hours lec. a week. Pr.: CHM 532, CHM 550 and CHM 595.

RATIONALE: Minor prerequisite change for new catalogue printing.

EFFECTIVE DATE: Fall 2006

Department of Geography

ADD: **GEOG 331. Introduction to Japan.** (3) Survey of the history, geography, and culture of Japan from prehistoric times to the present day, with attention to social and political developments. Same as HIST 331.

RATIONALE: This course is intended to serve the needs of K-State's new interdisciplinary minor program in East Asian Studies. Together with GEOG 332. Introduction to China, it will be one of two foundational or gateway courses for the minor.

EFFECTIVE DATE: Fall 2006

ADD: **GEOG 332. Introduction to China.** (3) Survey of the history, geography, society, politics, and culture of China from prehistoric times to the present day. Same as HIST 332.

RATIONALE: This course is intended to serve the needs of K-State's new interdisciplinary minor program in East Asian Studies. Together with GEOG 331. Introduction to Japan, it will be one of two foundational or gateway courses for the minor. This course is also intended to help prepare K-State students who will be traveling to China for study abroad or to teach English.

EFFECTIVE DATE: Spring 2007

Department of Kinesiology

CHANGE: **KIN 655. Fitness Promotion.** (3) ~~II~~. The study of the implementation and promotion of preventive health programs for populations at work, hospitals, and community fitness settings. Pr.: KIN ~~250~~ and 335.

TO: **KIN 655. Fitness Promotion.** (3) I. The study of the implementation and promotion of preventive health programs for populations at work, hospitals, and community fitness settings. Pr.: KIN 310 and 335.

RATIONALE: This course will now be offered in the Fall semester each year.

EFFECTIVE DATE: Fall 2007

Department of Military Science

CHANGE: **MSCI 100. Introduction to Military Science and ROTC.** (V) I. Basic drill, physical fitness, rappelling, army values, first aid, military presentations and Basic marksmanship. Two classroom hours, a required leadership lab, ~~optional participation in a one hour session for~~ physical fitness. Participation in a weekend exercise is optional, but highly encouraged.

TO: **MSCI 100. Introduction to Military Science and ROTC.** (V) I. Basic drill, physical fitness, rappelling, army values, first aid, military presentations and Basic marksmanship. Two classroom hours, a required leadership lab, and a three one hour sessions of physical fitness per week. Participation in a weekend exercise is optional, but highly encouraged.

RATIONALE: Departmental requirement as per syllabus.

EFFECTIVE DATE: Spring 2006

CHANGE: **MSCI 101. Introduction to Military Leadership.** (V) II. Principles of effective leading. Communication skills to improve individual performance and group interaction. Relation of military organizational ethical values to the effectiveness of a leader. Two classroom hours, a required leadership lab, ~~optional participation in a one hour session for~~ physical fitness. Participation in a weekend exercise is optional, but highly encouraged.

TO: **MSCI 101. Introduction to Military Leadership.** (V) II. Principles of effective leading. Communication skills to improve individual performance and group interaction. Relation of military organizational ethical values to the effectiveness of a leader. Two classroom hours, a required leadership lab, three one hour sessions of physical fitness. Participation in a weekend exercise is optional, but highly encouraged.

RATIONALE: Departmental requirement as per syllabus.

EFFECTIVE DATE: Spring 2006

CHANGE: **MSCI 200. Self/Team Development.** (V) I. Ethics-based military leadership skills that develop individual abilities and contribute to building effective teams. Oral presentations, leadership, land navigation, and basic military tactics. Two classroom hours; a required leadership lab; participation in ~~two~~ one-hour physical fitness sessions. Participation in a weekend exercise.

TO: **MSCI 200. Self/Team Development.** (V) I. Ethics-based military leadership skills that develop individual abilities and contribute to building effective teams. Oral presentations, leadership, land navigation, and basic military tactics. Two classroom hours; a required leadership lab; participation in three one-hour physical fitness sessions. Participation in a weekend exercise.

RATIONALE: Departmental requirement as per syllabus.

EFFECTIVE DATE: Spring 2006

CHANGE: **◆ MSCI 202. Individual/Team Military Tactics.** (V) II. Introduction to individual and team aspects of military tactics in small unit operations. Safety assessments, movement techniques, military orders process, rifle marksmanship, rappelling. Two classroom hours; a required leadership lab; participation in ~~two~~ one-hour physical fitness sessions. Participation in a weekend exercise is optional, but highly encouraged.

TO: **◆ MSCI 202. Individual/Team Military Tactics.** (V) II. Introduction to individual and team aspects of military tactics in small unit operations. Safety assessments, movement techniques, military orders process, rifle marksmanship, rappelling. Two classroom hours; a required leadership lab; participation in three one-hour physical fitness sessions. Participation in a weekend exercise is optional, but highly encouraged.

RATIONALE: Departmental requirement as per syllabus.

EFFECTIVE DATE: Spring 2006

Department of Modern Languages

ADD: **MLANG 002. National Student Exchange. (0)**

RATIONALE: MLANG 001 has been a part of the curriculum for years as a dummy course. It serves as an administrative mechanism to properly credit students who participate in study abroad. With the recent addition of the National Student Exchange, which sends students to other universities in the U.S., there needs to be a new dummy course whose purpose is to indicate a student exchange that occurs domestically. MLANG 002 will serve that function.

EFFECTIVE DATE: Spring 2006

Department of Music

ADD: **MUSIC 318. Instructional Media and Technology for Music Teachers. (2) I, II, S. Experiences in the selection, production use, and evaluation of instructional materials necessary for school teaching of music. Technology for education includes administrative, instructional, MIDI, & sound reinforcement applications. Pr.: Admission to teacher education.**

RATIONALE: Although the skills required for manipulating traditional educational technology are the same as a traditional classroom, the applications for a music classroom are different due to the unique nature of music instruction focused around an active and cooperative learning environment, non-linguistic instruction, and performance assessment. To better prepare the future teachers in music, we propose to offer a course in the Music Education department that fulfills the foundational and skill development expectations of DED 318 butr focused for the purpose necessary in a music classroom.

EFFECTIVE DATE: Fall 2006

CHANGE: **MUSIC 603. Percussion Pedagogy Workshop. (3) S.** Advanced study of percussion instruments and related performance techniques, teaching methods and responsibilities, organization, and literature.

TO: **MUSIC 603. Percussion Pedagogy Workshop. (3) S.** Advanced study of percussion instruments and related performance techniques, teaching methods and responsibilities, organization, and literature. Pr.: MUSIC 235 or equiv.

RATIONALE: Solid command of percussion pedagogy is a necessity for successful instrumental music educators who teach in primary and secondary schools. This course is designed to present problem-solving strategies that are effective from the podium (in practice) as well as in theory. The course includes a great deal of "hands on" experience and an emphasis on addressing the specific issues raised by class members.

EFFECTIVE DATE: Spring 2006

Department of Physics

CHANGE: **PHYS 101. The Physical World I.** (3) I, II, S. The courses The Physical World I and II are designed to present an overview of the physical sciences for students who have little or no previous physical science. The Physical World I is principally classical physics with some discussions of modern physics. The observations and phenomena are simple and basic. Three hours lec. a week. ~~Open only to freshmen, sophomores, and first semester transfer students.~~ Not available for credit to students who have credit in PHYS 106.

TO: **PHYS 101. The Physical World I.** (3) I, II, S. The courses The Physical World I and II are designed to present an overview of the physical sciences for students who have little or no previous physical science. The Physical World I is principally classical physics with some discussions of modern physics. The observations and phenomena are simple and basic. Three hours lec. a week. Not available for credit to students who have credit in PHYS 106.

RATIONALE: We have not enforced class standing requirement for years. It was originally created to avoid good senior competing with less mature students. Our experience has been that the seniors who enroll in this course are almost never strong competition for first and second year students.

EFFECTIVE DATE: Spring 2006

CHANGE: **PHYS 102. The Physical World II.** (3) I, II. Continuation of PHYS 101. Topics may include nuclear physics, atomic theory, quantum mechanics, chemistry, geology, molecular biology, and astronomy. Three hours lec. a week. ~~Not open to seniors.~~ Pr.: PHYS 101.

TO: **PHYS 102. The Physical World II.** (3) I, II. Continuation of PHYS 101. Topics may include nuclear physics, atomic theory, quantum mechanics, chemistry, geology, molecular biology, and astronomy. Three hours lec. a week. Pr.: PHYS 101 or permission of instructor.

RATIONALE: For Physical World II Pr.: students who have completed a high school physics course could complete Physical World II successfully without first taking Physical World I.

EFFECTIVE DATE: Spring 2006

DROP: ~~**PHYS 104. The Physical World II Laboratory.** (1) II. Two hours lab a week. Pr. or conc.: PHYS 102.~~

RATIONALE: We have not taught this course in at least 10 years and don't have space to teach even if we wanted to.

EFFECTIVE DATE: Spring 2006

DROP: ~~**PHYS 107. Physical Science Colloquium.** (1-2) Offered by TELENET. Topics in physical science chosen to illustrate current research of scientists and methods used to study the physical universe. At each offering of this course a syllabus will be available giving the topics to be studied and the details of administration of the course. May be repeated once. Not open to physics majors.~~

RATIONALE: We have not taught this course in at least 20 years.

EFFECTIVE DATE: Spring 2006

CHANGE: **PHYS 694. Particle Physics.** (3) II, in alternate years. An experimental and phenomenological introduction to high energy physics. The course will emphasize understanding the experimental basis of what is known about the subnuclear domain. Students will be asked to design simple conceptual experiments in addition to solving problems. Three hours of lec. per week. Pr.: PHYS 562.

TO: **PHYS 694. Particle Physics.** (3) II, in alternate years. An experimental and phenomenological introduction to high energy physics. The course will emphasize understanding the experimental basis of what is known about the subnuclear domain. Students will be asked to design simple conceptual experiments in addition to solving problems. Three hours of lec. per week. Pr.: PHYS 325.

RATIONALE: The course has been taught at a level that PHYS 325 is an adequate preparation. This change will also enable physics minors to take the course.

EFFECTIVE DATE: Spring 2006

Department of Sociology, Anthropology, and Social Work

CHANGE: **SOCIO 362. Police and Society.** (3) I. Examines in detail the policing function in society and the role police play in the criminal justice process. Pr.: SOCIO 211.

TO: **SOCIO 362. Police and Society.** (3) Examines in detail the policing function in society and the role police play in the criminal justice process. Pr.: SOCIO 211.

RATIONALE: Due to faculty turnover course is no longer being offered on a regular fall rotation.

EFFECTIVE DATE: Spring 2006

CHANGE: **SOCIO 432. Community Organization and Leadership.** (3) I, II. The analysis of community organization and change in American communities, with special emphasis on analysis of internal community organizational ties, the interaction between the local community and its external environment, and the exploration of various methods affecting community development and social change within communities. Pr.: SOCIO 211.

TO: **SOCIO 432. Community Organization and Leadership.** (3) I. The analysis of community organization and change in American communities, with special emphasis on analysis of internal community organizational ties, the interaction between the local community and its external environment, and the exploration of various methods affecting community development and social change within communities. Pr.: SOCIO 211.

RATIONALE: Due to faculty turnover this course is now offered in the fall.

EFFECTIVE DATE: Spring 2006

DROP: ~~**SOCIO 542. The Social Organization of the Future.** (3) On sufficient demand. Examination of alternative social arrangements presented in speculative and science fiction. Consideration of technological trends in terms of specific institutions. Analysis of possible social and interpersonal structures imaginatively conceived. Pr.: SOCIO 211.~~

RATIONALE: The faculty member who taught this course retired many years ago and there is no interest among current faculty in teaching this course.

EFFECTIVE DATE: Spring 2006

DROP: ~~**SOCIO 709. Development of Social Thought.** (3) On sufficient demand. Development of social thought from ancient civilization to the middle of the nineteenth century, approaches to the study of society; ideas on human nature, character and results of associative life, social trends, and social betterment. Pr.: SOCIO 211.~~

RATIONALE: This course has been renumbered as 809 in order to restrict its enrollment to graduate students. Undergraduates were never allowed to enroll in the past and the current numbering now reflects that.

EFFECTIVE DATE: Spring 2006

Department of Speech Communication, Theatre and Dance

CHANGE: **SPCH 480. Intercultural Communication.** (3) I. A study of the relationship between language and culture and its impact on human communication. Examines how language and culture differ among people and how differences are handled through the process of communication. Pr.: SPCH 105 or 106.

TO: **SPCH 480/780. Intercultural Communication.** (3) I, II. A study of the relationship between language and culture and its impact on human communication. Examines how language and culture differ among people and how differences are handled through the process of communication. Pr.: SPCH 105 or 106.

RATIONALE: This course will cover research facts and theories concerning the role of communication in the intercultural and international encounters. This course is open to diverse approaches to intercultural communication and cover common issues and topics people deal with when Americans go overseas, when foreigners and immigrants come to the United States, and when diverse minority and majority ethnicities and races live and work together anywhere in the world. Examples of topics to be covered are: Definitions and factors affecting intercultural communication and healthy community building in ethnically/racially diverse society (Identity Development, Language Barriers, Nonverbal Communication Issues, Study & Work Abroad, Culture Shock, History, Religion, Family, Ethics, Food, Intercultural Adaptation Theories, Conflict Management, Diversity, etc.)

EFFECTIVE DATE: Spring 2006

Department of Statistics

CHANGE: ~~**STAT 745. Graphical Methods, Smoothing, and Regression Analysis.** (3) II, in even years. Visual display of quantitative information. Graphical techniques to portray distributions of data, multivariate information, mean comparisons, and assessment of distributional assumption. Data smoothing techniques including loess, parametric, robust, and nonparametric regression, and generalized additive models. Graphical evaluation of smoothing techniques including assessment of assumptions. Regression diagnostics. Pr.: STAT 705.~~

TO: **STAT 745. Statistical Graphics.** (3) II, in even years. Visual display of quantitative information. Statistical graphics topics to include visual perception, basic graphics construction, quantitative univariate to multivariate statistical graphics, trellis displays, introduction to smoothing and graphics, introduction to density estimation and graphics, and categorical graphics. Modern graphics software will be used. Pr.: STAT 705 or equivalent.

RATIONALE: Minor rewrite of course description to reflect how course is currently being taught.

EFFECTIVE DATE: Spring 2008

CURRICULUM CHANGES

Department of Military Science

DROP:

page 91, undergraduate catalog

~~Associate of Arts for Military Personnel~~

~~60 hours including the following general requirements:~~

~~English—ENGL 100 and 200~~

~~Speech—SPCH 105 (or one course), courses subject to approval by Department of Speech~~

~~Modern languages—two years in one language or equivalent competence~~

~~Mathematics—one course~~

~~Humanities—three courses from: art, dance, English, history, modern languages, music, philosophy, speech, and Introduction to Women's Studies. No more than three courses in history may be used to fulfill humanities and social sciences requirements.~~

~~Social sciences—three courses from: anthropology, economics, geography (excluding GEOG 220 and 221), history, political science, psychology, sociology, social work, mass communications, and Introduction to Women's Studies. No more than three courses in history may be used to fulfill humanities and social sciences requirements.~~

~~Natural sciences—four courses, including one laboratory course and one course that has a prerequisite in the same department: biochemistry, biology, chemistry, computer science, geography, (GEOG 220 and 221 only), geology, mathematics, physics, or statistics~~

RATIONALE: No longer offered. These courses are not required to fulfill ROTC requirements.

EFFECTIVE DATE: Spring 2006

Department of Military Science...continued**DROP:**

page 91, undergraduate catalog

~~Associate of Science for Military Personnel~~

~~60 hours including the following general requirements:~~

~~English—ENGL 100 and 200~~

~~Speech—SPCH 105 (or one course), courses subject to approval by Department of Speech~~
~~Humanities and social sciences—seven courses, taken from at least two departments, including one course in philosophy, from: anthropology, art, dance, economics, English, geography (excluding GEOG 220 and 221), history, modern languages, music, philosophy, political science, psychology, sociology, social work, speech, mass communications, and Introduction to Women's Studies.~~

~~Natural sciences—four courses, including one laboratory course and one course that has a prerequisite in the same department: biology, biochemistry, chemistry, computer science, geography (GEOG 220 and 221 only), geology, mathematics, physics, or statistics~~

RATIONALE: No longer offered. These courses are not required to fulfill ROTC requirements.

EFFECTIVE DATE: Spring 2006

Department of Art**CHANGE:**

page 98, undergraduate catalog

Art education

Students may satisfy requirements to teach art in public schools by any of three programs: B.A. and teacher certification; B.F.A. and teacher certification; or B.S. in education with art concentration. Under the first two options students qualify for teacher certification by completing requirements as specified by the College of Education. See the College of Education approved programs section for more information.

TO:**Art education**

Students may satisfy requirements to teach art in public schools by any of three programs: B.A. and teacher certification; B.F.A. and teacher certification; or B.S. in education with art concentration. Under the first two options students qualify for teacher certification by completing requirements as specified by the College of Education. See the College of Education approved programs section for more information.

Formal evaluation prior to admission to the art education concentration is required. A display of selected Art Department foundation core work must meet faculty approval must maintain a grade of "C" in all art content courses and a 2.5 overall GPA in art content course work.

Additional review opportunities are allowed after an unsuccessful attempt and must be made at the end of the semester following an unsuccessful effort.

RATIONALE: The proposed change will insure that Art Education standards required for a strong scholarly foundation in art are met, thus assuring that there is content, knowledge and competency within art courses, including both history and studio performance.

EFFECTIVE DATE: Fall 2006

*Department of Biology***ADD:**

(It should go in the Graduate Catalog at the end of the section on Programs, as a sub-heading)

The Microbiology Ph.D. degree requires a minimum of 30 hrs course work, including 15 hours of courses at the 800 level.

I. Required core courses:

3 hrs BIOCH 755 Biochemistry I

3 hrs BIOCH 765 Biochemistry II

3 hrs BIOL 862 Professional Skills in Biology

II. Suggested courses for the specialization in Ecological Microbiology:

BIOL 604 Biology of fungi

BIOL 632 Ecology Lab

BIOL 687 Microbial Ecology

BIOL 690 Microbial physiology and metabolism

AGRON 645 Soil microbiology

BIOCH 766 DNA manipulation

BIOCH 767 RNA manipulation

STAT 703 Statistical methods for natural scientists

STAT 704 Analysis of variance

STAT 705 Regression and correlation analysis

BIOL 805 Advanced mycology

BIOL 818 Advanced aquatic ecology

BIOL 823 Demographic methods

BIOL 826 Nutrient dynamics

BIOL 860 Modern molecular approaches

BIOL 865 Advanced plant ecology

BIOL 870 Advanced plant systematics

BIOL 886 Confocal fluorescence and light microscopy

BIOL 888 Electron microscopy techniques

PLPTH 835 Plant virology

PLPTH 840 Plant pathogenic bacteria

PLPTH 845 Plant pathogenic fungi

Department of Biology...continued

III. Suggested courses for the specialization in Molecular Microbiology
BIOL 625 Animal Parasitology
BIOL 670 Immunology
BIOL 671 Immunology lab
BIOL 676 Genetics of microorganisms
BIOL 690 Microbial physiology and metabolism
BIOL 705 Eukaryotic genetics
BIOL 707 Advanced cell biology
BIOL 730 General virology
BIOL 731 Virology Lab
BIOCH 766 DNA manipulation
BIOCH 767 RNA manipulation
BIOL 830 Advanced virology
BIOL 835 Cellular and molecular parasitology
BIOL 840 Molecular and cellular immunology
BIOL 850 Advanced topics in immunology
BIOL 860 Modern molecular approaches
BIOL 886 Confocal fluorescence and light microscopy
BIOL 888 Electron microscopy techniques
BIOCH 911 Molecular signal transduction
BIOCH 920 Nucleic acids
BIOCH 930 Proteins
BIOCH 950 Enzyme chemistry
DMP 860 Pathogenic mechanisms
DMP 871 Molecular diagnostics of infectious diseases
DMP 878 Applications of flow cytometry

RATIONALE: The purpose of the (extended) list of courses is to provide the greatest possible flexibility for the student and the committee in choosing of the program. It also showcases the variety of courses that are available at KSU for fulfilling that degree. The great variety of course/topics is necessary due to the big variety of fields in which our faculty work. The program of study should complement the laboratory work of the student. Depending on what the particular student is working on, special courses might be needed. Students who work on viruses will probably not need courses on bacterial physiology or pathogenesis and vice versa. The fields of virology, bacteriology and immunology that are included in the Microbiology program are just so diverse and the individual needs of the students can be so different that a high number of courses listed is required to cover all the fields included.

EFFECTIVE DATE: Fall 2006

Department of Geography**CHANGE:***page 111, undergraduate catalog***Geography (B.A. or B.S.)**

Students of geography 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 a major in geography:

GEOG 100	World Regional Geography	3
GEOG 200	Human Geography	3
GEOG 220	Environmental Geography I	4
GEOG 221	Environmental Geography II	4
GEOG 302	Cartography and Thematic Mapping	3
GEOG 495	Capstone Seminar in Geography	2
GEOG 508	GIS I	3

One course in human-environment interaction: (GEOG 440, 718, 720, 725, 760, 765, or 770)	3
Geography electives (three hours must be at the 700 level: (GEOL 520 may be used as a geography elective)	<u>12</u>
Total credit hours required	37

TO:**Geography (B.A. or B.S.)**

Students of geography 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 a major in geography:

GEOG 100	World Regional Geography	3
GEOG 200	Human Geography	3
GEOG 220	Environmental Geography I	4
GEOG 221	Environmental Geography II	4
GEOG 302	Cartography and Thematic Mapping	3
GEOG 495	Capstone Seminar in Geography	2
GEOG 508	GIS I	3

One course in human-environment interaction: (GEOG 340, 460, 718, 720, 725, 760, 765, or 770)	3
Geography electives (three hours must be at the 700 level: (GEOL 520 may be used as a geography elective)	<u>12</u>
Total credit hours required	37

RATIONALE: Course has a focus on human-environment interaction.

EFFECTIVE DATE: Spring 2006