

COLLEGE OF ARTS AND SCIENCES  
COURSE AND CURRICULUM CHANGES

Amended and approved at the College faculty meeting

February 4, 2010  
Kedzie 106

4:00 p.m.

Undergraduate/Graduate  
Non-Expedited

Contact Person: Joe Aistrup  
532-6900  
e-mail: [jaistrup@ksu.edu](mailto:jaistrup@ksu.edu)

Units outside the college, which may be directly  
impacted by these changes are:

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

# NON-EXPEDITED COURSE PROPOSALS

## Courses Numbered 000 – 599

### **Dean of Arts and Sciences**

**ADD:** DAS 455 – History and Theories of Nonviolence: A Survey of Philosophies and Strategies. (3) II, S. Students will learn about nonviolence ideas and strategies and how historical and cultural contexts influence these. Pr.: DAS 355.

**RATIONALE:** Supports Nonviolence Studies program with instruction and research on theories and strategies in context.

**IMPACT:** None

**EFFECTIVE DATE:** Summer 2010

### **Mathematics**

**ADD:** MATH 101 – Studio College Algebra. (3) I, II, S. Fundamental concepts of algebra; algebraic equations and inequalities; functions and graphs; zeros of polynomial functions; exponential and logarithmic functions; systems of equations and inequalities. Class includes a weekly studio section to explore applications of the material. (~~Targets students preparing for STAT 325 or MATH 205~~). This class and Math 100, College Algebra, substitute for each other in all requirements at K-State. Credit is not allowed for both classes. Pr.: B or better in MATH 010; or two years of high school algebra and a College Algebra (Prob $\geq$ C) of 60 or more on the ACT assessment; or an appropriate score on the K-State mathematics placement exam.

**RATIONALE:** We have been offering two flavors of College Algebra for several years to meet the needs of the diverse population served by the course. With iSIS it has proven challenging for students and advisors to identify which sections are of each flavor and we have been asked to provide different course numbers to simplify this process. These two courses still cover the same core material and should not be treated as separate courses for the purposes of degree requirements or prerequisites. It is an essential part of this proposal that MATH 100 and MATH 101 substitute for each other in all requirements across the university.

**EFFECTIVE DATE:** ~~Fall 2010~~–Spring 2011

## **Geography**

**ADD:** GEOG 445 – Biogeography. (3) II. Covers: 1) the spatial and temporal patterns of the distribution of living organisms on Earth (including plants, animals, and microbes), and 2) the biological and physical processes responsible for these patterns. Biogeography has crucial insights to offer regarding conservation of rare species, global changes such as climate change, and human domination of the Earth surface. Pr.: one course in geography, life science, or physical science.

**RATIONALE:** Biogeography, the study of the spatial distribution of life on Earth, is one of the core subfields of geography. It is a highly interdisciplinary subject that integrates aspects of biology, geology, and geography. It is extremely useful for understanding current conservation biology and global change challenges from a scientific perspective. Yet, Kansas State University has never offered a Biogeography course. I am excited to offer this mid-level course at KSU to serve a variety of undergraduate students. Since Biogeography is one of my research specialties, I have received several inquiries from students about offering this course. It is very similar to courses taught at other universities, has a well-respected textbook, and will augment the curriculum across the University.

**IMPACT:** I am not sure if this is an impact, but this course will likely fill an elective requirement for undergraduate majors in Biology.

**EFFECTIVE DATE:** Spring 2011

## Courses Numbered 600-999

### **Geography**

**ADD:** GEOG 745 – Topics in Biogeography. (3) I. Examination of selected biogeography topics. Note: repeatable once with change in topic. Pr.: GEOG 445 or instructor permission.

**RATIONALE:** Biogeography is one of the core subfields of Geography. It is a rich topic both historically and in terms of cutting-edge science. I will be offering a new 400-level Biogeography course at Kansas State University. This 700-level course offering allows me to explore some of these topics in greater detail for upper-level undergraduate and graduate students. I have attached a sample syllabus for a topic called Ecoregions. Other topics might include courses about Species Distribution Models and Paleoenvironmental Change.

**IMPACT:** I do not foresee any impacts on other units.

**EFFECTIVE DATE:** Fall 2010

### **Psychology**

**ADD:** PSYCH 855 – Seminar in Applied Cognitive Science. (3) I, II. Multidisciplinary survey and discussion of empirical research and theoretical approaches to cognitive science topics. Pr.: Consent of instructor.

**RATIONALE:** This is a multidisciplinary graduate survey seminar taught by various Cognitive Science faculty and involving guest presentations. Its purpose is to promote commonality among student's backgrounds and also to allow students to learn about one another's research interests.

**IMPACT:** Does not impact another unit.

**EFFECTIVE DATE:** Fall 2010

# CURRICULUM CHANGES

## Undergraduate (Non-expedited)

### Mathematics

FROM:

TO:

Requirements	Requirements
<p>Students may obtain either a bachelor of arts or a bachelor of science degree with a major in mathematics. For either degree, in addition to the general requirements of the university and college, mathematics majors must complete the following core courses:</p>	<p>Students may obtain either a bachelor of arts or a bachelor of science degree with a major in mathematics. For either degree, in addition to the general requirements of the university and college, mathematics majors must complete the following core courses:</p>
Math 220 Analytic Geometry and Calculus I .....4	MATH 220 Analytic Geometry and Calculus I .....4
Math 221 Analytic Geometry and Calculus II .....4	MATH 221 Analytic Geometry and Calculus II .....4
Math 222 Analytic Geometry and Calculus III .....4	MATH 222 Analytic Geometry and Calculus III .....4
Math 240 Elementary Differential Equations .....4	MATH 240 Elementary Differential Equations .....4
CIS 111 Fundamentals of Computer Programming .....3	CIS 111 Fundamentals of Computer Programming .....3
<b>or</b>	<b>or</b>
CIS 200 Fundamentals of Software Design and Implementation ...4	CIS 200 Fundamentals of Software Design and Implementation ..4
<b>or both of the following</b>	<b>or</b>
CIS 105 Introduction to Computer Programming .....4	CIS 209 C Programming for Engineers .....3
<b>and</b>	<b>or</b>
CIS 209 C Programming for Engineers .....3	CIS 570 Introduction to Formal Language Theory .....3
STAT 510 Introductory Probability and Statistics I .....3	STAT 510 Introductory Probability and Statistics I .....3
Math 512 Introduction to Modern Algebra .....3	MATH 512 Introduction to Modern Algebra .....3
<b>or</b>	<b>or</b>
Math 511 Introduction to Algebraic Systems .....3	MATH 511 Introduction to Algebraic Systems .....3
Math 633 Advanced Calculus I .....3	MATH 633 Advanced Calculus I .....3
<b>or</b>	<b>or</b>
Math 520 Foundations of Analysis .....3	MATH 520 Foundations of Analysis .....3
<p>For the BA degree, students must take 15 additional hours in mathematics numbered 400 or above; PHILO 510 may be substituted for 3 of these hours.</p>	<p>For the BA degree, students must take 15 additional hours in mathematics numbered 400 or above; PHILO 510 may be substituted for 3 of these hours.</p>
<p>For the BS degree, students must take 15 additional hours in mathematics numbered 400 and above.</p>	<p>For the BS degree, students must take 15 additional hours in mathematics numbered 400 and above.</p>
<p>Students majoring in mathematics must earn a grade of C or better in each math and statistics course used to satisfy requirements for the major.</p>	<p>Students majoring in mathematics must earn a grade of C or better in each math and statistics course used to satisfy requirements of the major.</p>
<p>All students should enroll in Math 199 in their first fall on campus.</p>	<p>All students should enroll in MATH 199 in their first fall on campus.</p>
<p>Students may choose one of the following four programs, depending on their career interests.</p>	<p>Students may choose one of the following four programs, depending on their career interests.</p>

RATIONALE: There is some programming in CIS 570 and CIS 570 may better suit the needs/interests of many of our students.

EFFECTIVE DATE: Fall 2010

## Arts and Sciences Dean's Office

Drop: Associate of Science for Military Personnel

<p>60 hours including the following general requirements:</p> <p>English—ENGL 100 and 200</p> <p>Speech—SPCH 105 (or one course), courses subject to approval by Department of Speech Communication, Theatre, and Dance</p> <p>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.</p> <p>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.</p>	
--	--

RATIONALE: This Degree has not been used in the past 10+ years.

IMPACT: None

EFFECTIVE DATE: Fall 2010

DROP: Associate of Arts for Military Personnel

<p>60 hours including the following general requirements:</p> <p>English—ENGL 100 and 200</p> <p>Speech—SPCH 105 (or one course), courses subject to approval by Department of Speech Communication, Theatre, and Dance</p> <p>Modern Languages—two years in one language or equivalent competence</p> <p>Mathematics—one course</p> <p>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 science requirements.</p> <p>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.</p> <p>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.</p>	
--	--

RATIONALE: This Degree has not been used in the past 10+ years.

IMPACT: None

EFFECTIVE DATE: Fall 2010