



2-1-2005

## Undergraduate Council Minutes of Meeting February 1, 2005

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**The University of Tennessee, Knoxville  
Undergraduate Council  
Minutes of Meeting  
Tuesday, February 1, 2005  
2:00 p.m. – Board Room – Andy Holt Tower**

MEMBERS PRESENT: Brian Ambroziak, Frank Davis, Jeffrey Davis, Robert Hinde, Mary Holcomb, Joseph Hubbard, Mark Moon, Johnie Mazingo, Bill Park, Chris Pionke, Harold Roth, Richard Saudargas, Frank Spicuzza, Sam Swan

EX-OFFICIO MEMBERS PRESENT: Mary Albrecht, Richard Bayer, Don Cox, Tom George, Max Robinson, Frank Spicuzza, Sam Swan, Candace White

The meeting was called to order at 2:00 p.m. by Laura Jolly, Chair.

The Minutes of the [November 2, 2004](#) meeting of the Undergraduate Council were approved (pages U558-U572).

### **COMMITTEE REPORTS**

#### **Academic Policy Committee – R. Saudargas**

The committee proposed a revisions to the Academic Review and Enrollment sections in the Undergraduate Catalog. A revision to Changes in Registration was approved to clarify the periods for add, drop, and change of grading for mini term and summer session. (See page U575)

The Council approved the recommendations of the committee.

#### **Advising Committee – D. Peccolo (for R. Darling)**

With the resignation of the director of Undergraduate Academic Services, a transition team, chaired by Ruth Darling, continues to focus on undergraduate student success. The updated advising policy begins Fall 2005: An undergraduate student who has earned fewer than 30 hours at UT or is on academic review is required to meet with an advisor during each term of the academic year. All other students are required to consult an advisor for a substantial conference during a designated term each year.

#### **Appeals Committee – D. Peccolo**

A report from the Appeals Committee appears on page U576.

#### **Curriculum Committee – R. Hinde**

Approved curricular proposals from the University Honors Program and Colleges of Agricultural Sciences and Natural Resources; Architecture and Design; Arts and Sciences; Business Administration; Communication and Information; Education, Health, and Human Sciences; Engineering; Nursing; and Social Work were presented. After some discussion and minor corrections, the curriculum material was also approved by the Undergraduate Council. (See pages U577-U774)

#### **General Education Committee – L. Jolly**

For clarification, the committee made revisions to the text of the General Education Requirement, including the grading policy for General Education courses (page U776). Course additions and deletions accepted by the committee are on pages U777-U780; and the complete General

Education Requirement is found on pages U781-U791. After some discussion, the council approved the material.

The committee will continue to work on faculty awareness of the program.

## **OTHER**

### **Undergraduate Council – L. Jolly**

The council will continue to support the University Quality Enhancement Plan related to international and intercultural awareness. The council will look into an undergraduate-level form similar to the one used by the Graduate Curriculum Committee for submission of Computer-Mediated Courses.

In April, revised course prerequisites and corequisites that comply with the SIS program will be approved.

### **University Initiatives – A. Mayhew**

The university Student Information System (SIS) is progressing and plans are in place to train faculty and staff to enter grades electronically. Summer 2005 grades will be entered using the new SIS system.

A virtual teaching and learning center is in process with plans to have the site available this year.

The meeting was adjourned at 3:00 p.m.

**The next meeting of the Undergraduate Council is  
Tuesday, March 15, 2005  
2:00 p.m.  
Board Room – 8<sup>th</sup> Floor - Andy Holt Tower**

## ACADEMIC POLICY COMMITTEE REPORT

EFFECTIVE: FALL 2005

1. **Revise** the statement in the section titled "Academic Review" under Academic Retention on page 45 of the Undergraduate Catalog:

**From:**

A student who has been in academic review status returns to good standing when, at the end of the term, the cumulative grade point average is 2.0 or higher and the term grade point average is 2.0 or higher.

**To:**

A student will no longer be on academic review when his or her cumulative grade point average is 2.0 or higher and the term grade point average is 2.0 or higher.

2. **Add** the statement:

**Extracurricular Participation** as the last heading under **Enrollment**.

Students who are enrolled or eligible to enroll at the university may participate in extracurricular activities as permitted by the individual club or organization.

3. **Undergraduate Change in Registration (pages 44-45, Undergraduate Catalog)**

To:

**Changes in Registration**

Undergraduate students may add courses through the tenth calendar day counted from the beginning of classes for full term classes Fall and Spring term. Because of the nature of some courses, permission of the department head may be required to add a course after classes begin. Students may also, as departmental policies permit, change a section of a course through the add deadline.

- Students may drop courses until the 10th calendar day from the start of classes with no notation on the academic record for full term courses in Fall and Spring.
- From the 11th calendar day until the 42nd calendar day, students may drop courses which will receive the notation of W (Withdrawn) for full term courses in Fall and Spring.
- The W grade is not computed in the grade point average.
- Courses may be dropped on the web (<http://cpo.utk.edu>).
- After the 42nd calendar day and to the 84th day of classes, courses may be dropped and will be assigned a WP (Withdrawn Passing) or a WF (Withdrawn Failing) for full term courses in Fall and Spring. Instructor's signature is required. The form, once signed, should be taken to the Office of the University Registrar for processing.
- The WF is calculated in the grade point average as an F.
- After the 84th day, no drops are permitted.
- The periods for add, drop, change of grading are sessions within the full term, summer, and mini term are determined based on a percentage of the equivalent deadline within the full term. See *Timetable of Classes* each term for exact dates on the Circle Park Website at <http://cpo.utk.edu>. Deadline dates will be moved to the next business day if the deadline falls on a holiday, weekend day or spring recess.
- Failure to attend a course is not an official withdrawal and will result in the assignment of an F grade.

## APPEALS COMMITTEE REPORT

### Academic Dismissals

Fall 2004 Dismissals .....	263
Total # Appeals Submitted .....	36
Total # Appeals Denied .....	19
Total # Appeals Granted:	
Total # Reinstated by Committee .....	7
Total # Reinstated by Grade Change .....	2
Total # Reinstated by ODS Review .....	4
Total # Reinstated by Chancellor's Office .....	4
Total # Granted .....	17

### Retroactive Withdrawal Appeals

(Since October 1, 2004)

Total # Appeals Submitted .....	10
Total # Appeals Granted .....	4
Total # Appeals Denied .....	4
Total # Appeals Pending .....	2

### Readmission Committee Interviews

Total # Interviews .....	13
Total # Granted Admission for Spring 2005 .....	6
Total # Denied Admission for Spring 2005 .....	5
Total # Hold (Insufficient Information) .....	2

### Grade Appeal

(Since October 1, 2004)

Total # Appeals Submitted .....	1
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## CURRICULUM COMMITTEE REPORT

The Undergraduate Curriculum Committee met January 18, 2005 – 2:00 p.m. – 8<sup>th</sup> Floor Andy Holt Tower.

Present: Hinde (Chair), Hirschfeld, Jalata, Moon, Mozingo, Park, Pionke, Swan, Cox, George, Pierce, Robinson, Spicuzza, Jolly, Anderson

Curricular proposals from the following were submitted and approved with minor changes from:

- University Honors Program
- College of Agricultural Sciences and Natural Resources
- College of Architecture and Design
- College of Arts and Sciences
- College of Business Administration
- College of Communication and Information
- College of Education, Health, and Human Sciences
- College of Engineering
- College of Nursing
- College of Social Work

The meeting was adjourned at 3:30 p.m.

## UNIVERSITY HONORS PROGRAM

### ALL CHANGES EFFECTIVE: FALL 2005

#### I. Course Changes

##### University Honors (983)

*All University Honors courses are restricted to University Honors students only.*

ADD

**100 Introduction to University Honors (1)** Required of and limited to freshmen students in the University Honors Program. Computer skills, service learning, study abroad options, professional development, and research skills. Satisfactory/No Credit grading only.

**157 Arts and Humanities Honors Seminar (3)** Interdisciplinary examination of selected issues in the arts and/or humanities. Topics vary. May be repeated if topic differs. Maximum 6 hours. **(AH)**

**167 Social Science Honors Seminar (3)** Interdisciplinary examination of selected issues in the social sciences. Topics vary. May be repeated if topic differs. Maximum 6 hours. **(SS)**

**177 Cultures and Civilizations Honors Seminar (3)** Interdisciplinary examination of selected global and cultural issues. Topics vary. May be repeated if topic differs. Maximum 6 hours. **(CC)**

**187 Quantitative Reasoning Honors Seminar (3)** Interdisciplinary applications of quantitative reasoning methods. Topics vary. May be repeated if topic differs. Maximum 6 hours. **(QR)**

**257 Special Topics in the Arts and Humanities (3)** Examination of a selected issue in the arts and/or humanities from a multi-disciplinary perspective. Topics vary. Prereq: English 118 or 102 or consent of University Honors. May be repeated if topic differs. Maximum 6 hours. **(AH) (WC)**

**267 Special Topics in the Social Sciences (3)** Examination of a selected issue in the social sciences from a multi-disciplinary perspective. Topics vary. Prereq: English 118 or 102, or consent of University Honors. May be repeated if topic differs. Maximum 6 hours. **(SS) (WC)**

**277 Special Topics in Cultures and Civilizations (3)** Examination of a selected global or cultural issue from a multi-disciplinary perspective. Topics vary. Prereq: English 118 or 102, or consent of University Honors. May be repeated if topic differs. Maximum 6 hours. **(CC) (WC)**

**287 Special Topics in the Natural Sciences (3)** Examination of a selected issue in the natural sciences from a multi-disciplinary perspective. Topics vary. May be repeated if topic differs. Maximum 6 hours.

**499 Senior Honors Project (3)** Required of all University Honors students not completing an equivalent senior project for an academic department or program. Substantial scholarly, scientific, or artistic endeavor representing the capstone of a student's undergraduate education.

DROP

**117 Honors: Freshman Seminar (1)**

**127 Honors: Freshman Seminar (1)**

**338 University Scholars Seminar (1)**

**348 University Scholars Seminar (1)**

REVISE REPEATABILITY

**337 Honors: Concentration in the Humanities (3)** May be repeated if topic differs. Maximum 6 hours.

**347 Honors: Concentration in the Social Sciences (3)** May be repeated if topic differs. Maximum 6 hours.

**357 Honors: Concentration in the Natural and Applied Sciences (3)** May be repeated if topic differs. Maximum 6 hours.

REVISE DESCRIPTION

**458 Senior Honors Seminar (1)** Required of all University Honors students. Development and oral presentations of Senior Honors Projects. Should be taken one semester prior to the semester of graduation. Satisfactory/No Credit grading only.

## REVISE DESCRIPTION, HOURS, REPEATABILITY

**493 Honors: Independent Study (1-9)** Open to any undergraduate honors student. Proposals must be approved in advance by University Honors. May be repeated. Maximum 9 hours. Letter grade only.

## II. Program Changes

### UNIVERSITY HONORS PROGRAM

## REVISE ELIGIBILITY AND ADD REQUIREMENTS FOR UNIVERSITY HONORS PROGRAM

- Delete University Honors text on page 199, 2004-2005 Undergraduate Catalog and replace with:

The University Honors Program provides an outstanding curriculum for a community of engaged, academically superior scholars in any major. Specially designed interdisciplinary seminars fulfill part of the UT General Education requirements for Basic Skills and Broadened Perspectives. These classes for University Honors students only; explore significant themes as they are perceived by and represented in various disciplines: they are small, discussion-based, and directed by outstanding UT faculty. University Honors seminars add intellectual breadth to the depth obtained in a student's major, by emphasizing the interrelatedness of human knowledge. All three-credit University Honors seminars also fulfill part of the general education requirements; therefore, graduating with the Honors distinction usually can be accomplished in the same amount of time as a non-Honors degree.

The goals of the University Honors Program are

- (1) to promote habits of serious, worthwhile, intellectual pursuit
- (2) to engender a lifelong appreciation of, and dedication to, learning
- (3) to help channel the energies of future leaders into service to the community
- (4) to help provide students with a global perspective

#### ELIGIBILITY

High school seniors with superior academic credentials (3.75 core high school grade point average and 29 ACT or 1280 SAT score) will be automatically sent an application for admission to University Honors. Though the great majority of University Honors students are accepted as freshmen, a small number of first-year UT students will be considered for acceptance in their second year. To be eligible to apply, UT freshmen must taken at least one departmental honors course and maintained an overall grade point average of 3.7. Transfer students who have completed fewer than 30 credit hours in good standing in another Honors Program with at least a 3.7 grade point average are eligible to apply. Students in all majors are eligible to be participants in University Honors.

#### REQUIREMENTS

In addition to required work in their respective colleges, Honors Scholars complete

- English 118 (required), except for incoming students with a 4 or 5 on the Literature-Composition AP test, or with dual-enrollment credit for English 101 and 102
- One 1-credit University Honors seminar (University Honors 100)
- Five 100- or 200-level honors courses selected from University Honors seminars or special topics or departmental honors offerings.
- Two upper-division honors courses in their major (Honors-by-Contract\* or Honors Independent Study may be substituted)
- One 1-credit University Honors Senior Seminar (University Honors 458)
- One 3-credit Senior Project (University Honors 499)

TOTAL: 26-30 credit hours of honors coursework

\*Honors by Contract: Customized approach in an upper-division course in the student's academic major, through completion of a written contract delineating additional effort. The contract must be submitted to UHP by the third week of the semester. Limited to University Honors students.



## COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

### ALL CHANGES EFFECTIVE: FALL 2005

#### I. Course Changes

##### Agricultural and Extension Education (042)

DROP

##### 346 Instructional Strategies for Teaching Agricultural Education (3)

ADD

**434 Methods of Teaching Agriscience (3)** Methods and techniques for teaching agriculture, preparing lesson plans and units of instruction, developing activities for agriculture programs, and utilization of resources, multimedia, and computer technology into instruction. Course will include a lab component. Taken in the fall prior to student teaching. Prereq: 201, 211, 345 or consent of instructor.

**Reference Chart for Curriculum System Entry**

Current Course <b>(042) Agricultural and Extension Education</b>	Fall 2005 <b>(042) Agricultural and Extension Education</b>
346 Instructional Strategies for Teaching Agricultural Education (3)	434 Methods of Teaching Agriscience (3)

**440 Communication Techniques in Agriculture (3)** Elements of effective use of mass media in Agricultural and Extension Education. Effective technical writing and presentation strategies for agricultural audiences. Prereq: English 101 and 102, junior standing. **(WC)**

**450 Agricultural Leadership Development (3)** Identification of styles, and roles of leadership; development of leadership techniques and skills required in working with organizations and youth groups, methods of resolving conflict, of communicating, of guiding and evaluating; ethical considerations for leaders. Prereq: Junior standing.

REVISE TITLE AND DESCRIPTION

**345 Program Planning in Agriscience Education (3)** Overview of the historical and philosophical aspect of agriculture education, the role of teacher and learner, emphasis on SAE, FFA, community service, and summer programs. Course will include a lab component. Prereq: 201, 211 or consent of instructor.

##### Agriculture and Natural Resources (088)

ADD

**330 Leadership Development in Agriculture and Natural Resources (1)** Readings on leadership and personal development, communication techniques, and/or personality types. Enrollment limited to College Ambassadors. May be repeated. Maximum 4 hours. A, B, C, No Credit grading.

#### DEPARTMENT OF BIOSYSTEMS ENGINEERING AND ENVIRONMENTAL SCIENCE

##### Biosystems Engineering Technology (194)

REVISE PREREQUISITE

**414 CAD Applications to Biosystems Engineering Technology (3)** Prereq: Computer proficiency.

REVISE PREREQUISITE/COREQUISITE

**434 Production Monitoring and Automation (3)** Prereq: 326

**Biosystems Engineering (196)**

ADD

**231 Biochemistry for Engineers (3)** Fundamentals of biochemistry presented from an engineering point of view and applied to solve engineering-related problems. Topics to be covered include fundamental organic chemistry of amino acids, carbohydrates, lipids and other important biochemicals; the role and control of pH in biological solutions; fundamental biochemistry of proteins and enzymes; introduction to bioenergetics and metabolic pathways, and the replication, transcription, and translation of DNA. Prereq: Chemistry 120, Mathematics 141.

**404 Engineering Project Management (3)** Fundamentals and theory of engineering design and engineering project management, use of computerized project management tools, ethical responsibilities and contemporary issues in biosystems engineering, incorporation of economic considerations in engineering design, individual professional and portfolio development. Coreq: 401 and 444.

DROP

**441 Life Systems Engineering (3)**

REVISE CREDIT HOURS, DESCRIPTION, PREREQUISITE

**401 Biosystems Engineering Design I (2)** First course of a capstone design sequence. Review of fundamental engineering principles and design proposal generation. Design proposals will include preliminary engineering analyses, extensive documentation, and multiple individual and group presentations. Prereq: Senior standing and at least two of 411, 416, 431, 451, or consent of instructor. **(OC)**

REVISE COURSE DESCRIPTION AND PREREQUISITE

**104 Design Apprenticeship (1)** Exposure to design in Biosystems Engineering, through apprenticeship with senior design teams in Biosystems Engineering 402. Apprentices will assist with design, construction, testing, analysis, and presentation of project. Will also include background in engineering design, engineering project management, and engineering design tools. 2-hour lab. Prereq: Engineering Fundamentals 151.

REVISE COURSE DESCRIPTION, CHANGE COREQUISITE TO PREREQUISITE

**431 Bioprocess Engineering (3)** Development of interdisciplinary bioprocess engineering; basics of biology in an engineering perspective; enzymatic reaction kinetics; metabolism and bioenergetics; cell growth kinetics and product formation; engineering principles applied to bioprocess engineering including mass balance, energy balance, and reaction kinetics; reactor design and systems; introduction to bioseparations; practical aspects of bioprocess engineers and process development. 2 hours and 1 lab. Prereq: 321.

REVISE PREREQUISITE

**221 Mass and Energy in Biosystems (3)** Prereq: Chemistry 120, Engineering Fundamentals 152.

**Environmental And Soil Sciences (345)**

DROP

**110 Introduction to Environmental and Soil Sciences (1)**

ADD

**120 Soils and Civilizations (3)** Investigation of the close linkage between soil conservation and degradation and the consequences to ancient civilizations and environmental degradation and its societal impacts during modern times. Comparison of past soil management practices to present-day issues of soil salinization, erosion, and siltation. Introduction to the role of soil resources in current global environmental issues and conflicts. **(CC)**

**DEPARTMENT OF ENTOMOLOGY AND PLANT PATHOLOGY****Entomology And Plant Pathology (341)**

ADD

**405 Mycology (3)** Survey of the fungal kingdom and traditional allies in the context of phyla and classes. Systematics, biology, reproduction, structure-function, physiology, and ecology are illustrated with material and cultural techniques in laboratories. 2 hours lecture and one 2-hour lab. Students cannot receive credit for both 405 and 505. Prereq: Biology 111-112 or 130-140.

REVISE PRIMARY CROSS-LISTED COURSE TO DROP SECONDARY CROSS-LISTING

**313 Plant Pathology (3)**

**451 Plant Tissue Culture (3)** (*Same as Plant Sciences 451.*)

**DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES**

**Forestry (396)**

ADD

**214 Tree Biology (3)** An introduction to the anatomy and development of woody plants, their reproduction, growth requirements, and functioning. Prereq: Biology 101-102 or 111-112.

**215 Forest Ecology (3)** Ecological interactions among tree species, other plant and animal species, and their environment. Forest ecosystem classification; energy, nutrient, and hydrologic cycles; site quality. Perturbations and growth, survival and forest composition; forest succession; fire ecology. Regeneration ecology through establishment and stand dynamics. Physiological ecology, ecological strategies, and adaptations of trees. 2 hours and 1 lab. Prereq: Forestry, Wildlife and Fisheries 212.

**Reference Chart for Curriculum System Entry**

<b>Current Course (396) Forestry</b>	<b>Fall 2005 (396) Forestry</b>
FOR 315 Forest Ecology (3)	FOR 215 Forest Ecology (3)

DROP

**315 Forest Ecology (3)**

REVISE CREDIT HOURS

**322 Silvicultural Practices (2)**

**323 People and Forest Practices (1)**

**Forestry, Wildlife And Fisheries (398)**

ADD

**212 Dendrology and Silvics of North American Trees (3)** Identification, classification, and nomenclature of important North American trees and woody shrubs; forest associations; silvicultural characteristics of trees and stands as the basis for the practice of silviculture. Daylong field trips may be required. 2 hours and 1 lab. Prereq: Biology 101-102, 111-112, or 130-140.

**Reference Chart for Curriculum System Entry**

<b>Current Course (398) Forestry, Wildlife and Fisheries</b>	<b>Fall 2005 (398) Forestry, Wildlife and Fisheries</b>
311 Dendrology and Silvics of North American Trees (3)	212 Dendrology and Silvics of North American Trees (3)

DROP

**311 Dendrology and Silvics of North American Trees (3)**

REVISE CREDIT HOURS

**412 Managing Natural Resource Organizations (3)**

**Wildlife And Fisheries Science (993)**

ADD

**101 Current Topics in Wildlife Health (1)** All aspects of wildlife health including current topics, emerging diseases, impact of diseases on wildlife populations, general disease mechanisms, and career opportunities in the wildlife profession.

**201 Seminar in Wildlife Health (1)** All aspects of wildlife health with an emphasis on current events and research. Prereq: 101.

**301 Introduction to Wildlife Diseases (3)** Fundamentals of wildlife health and disease emphasizing relevant current information on the biology of physiological diseases, infectious agents, pathogenesis, epidemiology, wildlife management, interrelationships among diseases of wild animals, humans and domestic animals, and molecular techniques. Prereq: 201, Microbiology 310, 319.

## DEPARTMENT OF PLANT SCIENCES

### Plant Sciences (791)

ADD

**120 Introduction to Plant Sciences (2)** Survey of the disciplines and professions addressed by the department's four academic undergraduate concentrations: landscape design and construction; turfgrass science and management; public horticulture; plant science, biotechnology and horticulture. For departmental majors: enrollment is restricted to freshmen and transfer sophomores. Open to all non-majors.

**210 Horticulture: Principles and Practices (2)** An introduction to the biology and technology underlying the use and production of horticultural crops and landscape plants. Structure, growth and development of horticultural plants from a practical and scientific approach, environmental effects, basic principles of propagation, greenhouse and outdoor production, nutrition, pruning and chemical control of growth, pest control and branches of horticulture. Prereq: Biology 111 and 112.

**226 Public Horticulture (2)** Study of the public horticulture profession. Attention given to the diversity of public horticulture institutions, career opportunities, and research. Discussion of current topics and issues. Prereq: 120.

**240 Turfgrass Management (2)** Practical turfgrass management; cultivar selection, identification, and establishment; basic fertility programs, mowing, irrigation practices, and thatch removal and compaction control; pest identification and basic controls. 2 hours lecture. Prereq: Environmental and Soil Sciences 210; Biology 111 and 112.

**241 Turfgrass Management Lab (1)** Laboratory addressing topics presented in 240. 2-hour lab. Prereq: Environmental and Soil Sciences 210; Biology 111 and 112. Prereq/Coreq: 240.

**290 Fall Herbaceous Ornamental Plants (3)** Identification, culture, and landscape use of late summer and fall herbaceous ornamental plants including annuals, perennials, herbs, and ornamental grasses. Basic gardening practices and design elements using such herbaceous ornamental plants. Prereq: 120.

**291 Spring Herbaceous Ornamental Plants (3)** Identification, culture, and landscape use of spring and early summer herbaceous ornamental plants including annuals, perennials, herbs, bulbs and wildflowers. Basic gardening practices and design elements using such herbaceous ornamental plants. Prereq: 120.

**328 Conservatories: Management, Operations and Display (1)** Study of the history, value and role of public garden conservatories. Management, operations and display of plants in controlled environments for research, conservation, and public education and entertainment. Prereq: 226.

**329 Horticultural Interpretation: Educational Programming for Adults and Children (1)** Strategic planning, programming and budgeting for adult and youth education within a public garden. Prereq: 226.

**331 Interpreting Research Findings (1)** Basic statistical concepts required for understanding and evaluating research findings. Prereq: Two mathematics courses.

**335 World Food and Fiber Plant Production (3)** Introduction to important world crops and production systems. Emphasis on plant terminology, origin and development, world agro-ecosystems, environmental and economic sustainability, current technology in crop production. Prereq: Biology 111-112 or 101-102 or 130-140.

**341 Integrated Turfgrass Management and Environmental Benefits (2)** Utilization of resources available to the turfgrass manager (e.g. extension, research, professional associations). Benefits of turfgrass in the environment, including bioremediation, urban greening, carbon sequestration. Prereq: 240.

**343 Turfgrass Entomology (1)** Biological study and collection of arthropods that challenge maintenance of healthy grasses, turf and sod. Review and discussion of sampling/monitoring strategies and decision-making guidelines to help manage turfgrass pests. Prereq: 240.

**348 Landscape Plant Physiology (2)** Physiological principles as they relate to landscape design and construction, turfgrass management and public horticulture: photosynthesis and transpiration, respiration, water and hormonal relations, mineral nutrition, plant development and response to the environment. Prereq: Biology 111 and 112.

**353 Plant Genetics, Breeding and Biotechnology (3)** Genetic principles and techniques used in plant modification. Principles of molecular, transmission, and quantitative genetics as applied to plant breeding. Prereq: Biology 111 and 112.

**441 Advanced Turfgrass Management (2)** Principles and scientific basis of turfgrass culture; adaptation, ecology, physiology, climatic influences on grass culture; clipping and water management; design. 1-hour lecture and one 1-hour lab. Prereq: 240.

**442 Turf Root-zone Construction (2)** Construction and management of root-zones for home lawns, golf courses and athletic fields. Prereq: 240.

**448 Horticultural Internet Technology (3)** Creation and management of information resources for the internet, with a focus on development of visual and oral communications skills through a series of individual and team exercises in writing, graphics and public speaking. Prereq: Communication Studies 210 or 240, and senior standing. **(WC)**

**454 Plant Biotechniques (3)** Lectures will discuss recombinant DNA technology, molecular assisted breeding of economically important crops, gene cloning and transformation technologies. Examples will be given of food and ornamental crops, pharmaceuticals, and renewable energy sources produced using biotechnology as well as potential risks of this technology. Labs will include electrophoresis, tissue culture, plasmid preps, genomic DNA preps, PCR, plant transformation, genomic techniques. 1 hour and one 3-hour lab. Prereq: 353 or Biology 240.

**457 Weed Management (2)** Principles of weed interference, integrated management, herbicide selectivity and behavior, specific recommendations for various crop and non-crop situations. Prereq: Environmental and Soil Sciences 210.

**458 Turf Weed Management Lab (1)** Laboratory addressing practices and principles presented in 457, from the standpoint of turf. Prereq: Environmental and Soil Sciences 210. Prereq/Coreq: 457.

**459 Agronomy Weed Management Lab (1)** Laboratory addressing practices and principles presented in 457, from the standpoint of agronomy. Prereq: Environmental and Soil Sciences 210. Prereq/Coreq: 457.

**461 Statistics for Biological Research (3)** Application of statistics to interpretation of biological research. Notation, descriptive statistics, probability, distributions, confidence intervals, t- and chi-square tests, analysis of variance, mean separation procedures, linear regression and correlation. Students may not receive credit for both 461 and 561. Prereq: Mathematics 125 or 152.

**470 Professional Practices for the Green Industry (3)** Professionalism, sales, sales proposals, budgeting, managerial skills, estimating, specifications, and contract management in the turf, public horticulture and landscaping professions. Prereq: Two 300-level or 400-level Plant Sciences courses.

**497 Undergraduate Research Participation (1-3)** Experiences in active research projects under supervision of staff members. Student should make arrangements for research project with instructor prior to enrollment. Prereq: Junior or senior standing, minimum grade point average 3.00 and consent of instructor. May be repeated. Maximum 6 hours.

DROP

**110 Introduction to Ornamental Horticulture (3)**

**231 Interior Landscaping II (3)**

**235 Introduction to Crop Science (3)**

**326 Public Horticulture (3)**

**340 Turfgrass Management (3)**

**390 Fall Herbaceous Ornamental Plants (3)**

**391 Spring Herbaceous Ornamental Plants (3)**

**431 Physiology and Ecology in Agroecosystems (3)**

**440 Advanced Turfgrass Management (4)**

**453 Principles of Plant Breeding (3)**

**471 Statistics for Biological Research (3)**

**490 Seminar (1)**

**Reference Chart for Curriculum System Entry**

<b>Current Courses (791) Plant Sciences</b>	<b>Fall 2005 (791) Plant Sciences</b>
110 Introduction to Ornamental Horticulture (3)	120 Introduction to Plant Sciences (2)
231 Interior Landscaping II (3)	470 Professional Practices for the Green Industry (3)
235 Introduction to Crop Science (3)	335 World Food and Fiber Plant Production (3)
340 Turfgrass Management (3)	240 Turfgrass Management (2) and Turfgrass Management Lab (1)
390 Fall Herbaceous Ornamental Plants (3)	290 Fall Herbaceous Ornamental Plants (3)
391 Spring Herbaceous Ornamental Plants (3)	291 Spring Herbaceous Ornamental Plants (3)
440 Advanced Turfgrass Management (4)	441 Advanced Turfgrass Management (2) and 442 Turf Root-zone Construction (2)
453 Principles of Plant Breeding (3)	353 Plant Genetics, Breeding and Biotechnology (3)
471 Statistics for Biological Research (3)	461 Statistics for Biological Research (3)

REVISE CREDIT HOURS

**410 Nursery Management and Production (2)**

REVISE PREREQUISITES

**220 Basic Landscape Plants (3)** Prereq: Biology 111 and 112.

**230 Interior Landscaping (3)** Prereq: 120

**421 Native Plants in the Landscape (3)** Prereq: 220 or Ecology and Evolutionary Biology 330.

**460 Professional Practices in Landscape Construction and Management (2)** Prereq: 350.

**485 Computer Aided Landscape Design (3)** Prereq: 280, 380, and Agriculture and Natural Resources 290 or Computer Science 100 or equivalent.

**494 Professional Horticultural Communications (3)** Prereq: Agriculture and Natural Resources 290, Computer Science 100 or equivalent, and senior standing.

REVISE CREDIT HOURS AND PREREQUISITES

**330 Plant Propagation (2)** Prereq: Biology 111 and 112.

**427 Management and Administration of Public Horticulture Institutions (2)** Prereq: 226.

**429 Field Study of Public Horticulture Institutions (2)** Prereq: 226.

**435 Field and Forage Crops (2)** Prereq: 335.

**437 Public Garden Operations and Management (2)** Prereq: 226.

**446 Horticultural Therapy (2)** Prereq: Senior standing.

REVISE DESCRIPTION AND PREREQUISITES

**434 Fruit and Vegetable Crops (3)** Botanical description, geographical distribution, general cultural practices of warm and cool season vegetables, small fruits, and deciduous tree fruits. A Saturday field trip is required. 2 hours lecture and one 2-hour lab. Prereq: 120, Biology 111 and 112.

REVISE TITLE, DESCRIPTION, PREREQUISITES

**430 Greenhouse Management (3)** Principles of greenhouse operation and management for commercial crop production. Greenhouse construction and operation, crop scheduling and cost accounting. Environmental inputs and cultural practices as they affect plant physiological processes and influence plant growth and development. 2 hours lecture and one 2-hour lab. Prereq: Agriculture and Natural Resources 290 or Computer Sciences 100 or equivalent.

## II. Program Changes

### COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

REVISE REQUIREMENTS FOR BACCALAUREATE DEGREE PROGRAMS: (BIOLOGICAL AND PHYSICAL SCIENCES REQUIREMENT; REDUCTION OF TOTAL MINIMUM HOURS TO 120 (FORMERLY 124))

- On page 51, left-hand column, of the 2004-2005 Undergraduate Catalog, revise the biological and physical sciences requirement to
  - Biological Sciences – 2 courses, minimum 6 hours, 1 course may be in a College of Agricultural Sciences and Natural Resources course.
  - Physical Sciences – 2 courses, minimum 6 hours from Chemistry, Physics, Geology, Geography 131-132 (physical geography), Environmental and Soil Sciences 210
  - NOTE: At least one of the four Biological and Physical Sciences courses must be a lab course.
  
- On page 51, middle of left-hand column, of the 2004-2005 Undergraduate Catalog, revise total minimum hours required to
  - For a total of 120 hours minimum.

REVISE COLLEGE REQUIREMENTS FOR A MINOR TO A MINIMUM OF 15 HOURS (FORMERLY 16 HOURS)

- On page 51, bottom left-hand column, of the 2004-2005 Undergraduate Catalog, revise credit hours required for the minor to Minors offered by departments require a minimum of 15 credit hours in courses offered in the program.

**DEPARTMENT OF AGRICULTURAL ECONOMICS**

REVISE AGRICULTURAL ECONOMICS AND BUSINESS MAJOR

- On pages 52-53 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Agriculture - Agricultural Economics and Business Major**

	Hours Credit
<b>Freshman</b>	
Agricultural Economics 110 .....	1
Agriculture and Natural Resources 290 .....	3
<sup>1</sup> Biological Science Electives* .....	8
<sup>2</sup> Cultures and Civilizations Electives* .....	6
English 101*, 102* .....	6
Mathematics 123*, 125* .....	6
<b>Sophomore</b>	
Accounting 200 .....	3
Agricultural Economics 212 .....	3
Animal Science 280 or 381 .....	3
Economics 201* .....	4
<sup>2</sup> Arts and Humanities Elective* .....	3
<sup>3</sup> Physical Sciences Electives* .....	8
Environmental and Soil Science 210 or Plant Sciences 335 .....	3-4
Statistics 201* .....	3
<b>Junior</b>	
Agricultural Economics 310, 320, 342, 350, 412 .....	13
English 295* or 360* or Journalism and Electronic Media 201* .....	3
Nondepartmental Agricultural Electives .....	6
Psychology 110* or Political Science 102* or Sociology 120* .....	3
Communication Studies 210* or 240* .....	3
Statistics 320 or 365 .....	3
<b>Senior</b>	
Agricultural Economics 410 .....	1
<sup>4</sup> Agricultural Economics or Rural Sociology Electives .....	15
Economics 313 .....	3
<sup>2</sup> Arts and Humanities Elective* .....	3
Electives.....	8-9
<b>Total 122</b>	

\*Meets University General Education Requirement.

<sup>1</sup>Selected from Biology 101, 102, 130, 140.

<sup>2</sup>Choose any course from University General Education list.

<sup>3</sup>Selected from Chemistry 100, 110, 120, 130, Geography 131, 132, Geology 101, 102, 103.

<sup>4</sup>A minimum of 9 credit hours must be taken from the following courses: Agricultural Economics 315, 330, 337, 355, 360, 420, 430, 442, 444, 450, 470. A maximum of 3 credit hours can be used from each of the following courses: Agricultural Economics 356, 492 and 493.

REVISE AGRICULTURAL ECONOMICS AND BUSINESS MAJOR: AGRICULTURAL EQUIPMENT SYSTEMS MANAGEMENT CONCENTRATION

➤ On page 53 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Agriculture - Agricultural Economics and Business Major - Agricultural Equipment Systems Management Concentration**

	Hours Credit
<b>Freshman</b>	
Agricultural Economics 110 .....	1
Agriculture and Natural Resources 290 .....	3
Biology 111*, 112* .....	8
<sup>1</sup> Cultures and Civilizations* .....	6
English 101*, 102* .....	6
Mathematics 123*, 125* .....	6
<b>Sophomore</b>	
Accounting 200 .....	3
Agricultural Economics 212 .....	3
Biosystems Engineering Technology 202 .....	3
Chemistry 120* .....	4
Economics 201* .....	4
<sup>1</sup> Arts and Humanities Elective* .....	3
Physics 161* .....	3
Environmental and Soil Science 210 .....	4
Statistics 201* .....	3
<b>Junior</b>	
Agricultural Economics 310, 320, 342, 350, 412 .....	13
Environmental and Soil Sciences 324 .....	3
Biosystems Engineering Technology 326 .....	3
English 295* or 360* or Journalism and Electronic Media 201* .....	3
<sup>1</sup> Arts and Humanities Elective* .....	3
Psychology 110* or Political Science 102* or Sociology 120* .....	3
Communication Studies 210* or 240* .....	3
<b>Senior</b>	
Agricultural Economics 410, 442 .....	4
<sup>2</sup> Agricultural Economics or Rural Sociology Electives .....	9
Biosystems Engineering Technology 432, 442, 452, 462 .....	12
Economics 313 .....	3
Statistics 320 or 365 .....	3
<hr/> Total 122	

\*Meets University General Education Requirement.

<sup>1</sup>Choose any course from University General Education list.

<sup>2</sup>A minimum of 6 credit hours must be taken from the following list of courses: Agricultural Economics 315, 330, 337, 355, 360, 420, 430, 444, 450, 470. A maximum of 3 credit hours can be used from each of the following courses: Agricultural Economics 356, 492 and 493.



**AGRICULTURAL SCIENCE (INTERDEPARTMENTAL UNIT)**

## REVISE AGRICULTURAL SCIENCE MAJOR

➤ On page 54 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Agriculture - Agricultural Science Major**

	Hours Credit
<b>Freshman</b>	
Agriculture and Natural Resources 100 .....	1
Agriculture and Natural Resources 290 .....	3
Animal Science 160 .....	3
Biology 130*, 140* .....	8
English 101*, 102* .....	6
Mathematics 113* and Quantitative Reasoning Course* .....	6
Plant Sciences 120 .....	2
<b>Sophomore</b>	
Agricultural and Extension Education 211 .....	3
Agricultural Economics 212 .....	3
Food Science and Technology 140 .....	3
Chemistry 100*-110* or 120*-130* .....	8
Environmental and Soil Sciences 210 .....	4
Plant Sciences 335 .....	3
Economics 201* .....	4
Communication Studies 210* or 240* .....	3
<b>Junior</b>	
Agricultural Economics 342 .....	3
Entomology and Plant Pathology 313 or 321 .....	3
<sup>1,2</sup> Cultures and Civilizations Elective* .....	3
<sup>1,2</sup> Arts and Humanities Elective* .....	3
Plant Sciences 330 or 430 .....	2-3
<sup>3</sup> Agricultural Sciences and Natural Resources or Communication Minor .....	15
<b>Senior</b>	
<sup>3</sup> Agricultural Sciences and Natural Resources or Communication Minor .....	9
<sup>2</sup> Agricultural Sciences and Natural Resources Electives .....	9
<sup>1,2</sup> Arts and Humanities Elective* .....	3
<sup>1,2</sup> Cultures and Civilizations Elective* .....	3
<sup>1,2</sup> Social Sciences Elective* .....	3
<sup>2</sup> Free Electives .....	7-8
<b>Total 124</b>	

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists.

<sup>2</sup> One of the University General Education Electives, Agricultural Sciences and Natural Resources Electives, or Free Electives must be a writing-intensive (WC) course.

<sup>3</sup> Students should select one of the minors offered by the College of Agricultural Sciences and Natural Resources: Agricultural Economics, Animal Science, Biosystems Engineering Technology, Entomology and Plant Pathology, Environmental and Soil Sciences, Food Science and Technology, Forestry, Plant Sciences, Wildlife and Fisheries Science, or one of the minors in the College of Communication and Information (see listing in this catalog), or submit an individualized plan of study before the Junior year, for approval by the advisor, department head, and the Dean's Office. If the minor is less than 21 hours, the excess hours will become free electives.

## REVISE AGRICULTURAL SCIENCE MAJOR: AGRICULTURAL EDUCATION CONCENTRATION

➤ On page 54 and 55 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Agriculture - Agricultural Science Major - Agricultural Education Concentration**

	Hours	Credit
<b>Freshman</b>		
Agriculture and Natural Resources 100 .....	1	
Agriculture and Natural Resources 290 .....	3	
Animal Science 160 or 280 .....	3	
Biology 101*-102* or 130*-140 .....	8	
English 101*, 102* .....	6	
Mathematics 113* and Quantitative Reasoning course* .....	6	
Economics 201* .....	4	
Communication Studies 210* .....	3	
<b>Sophomore</b>		
Agricultural Economics 212 .....	3	
Agricultural and Extension Education 211 .....	3	
Agricultural and Extension Education 201 .....	1	
Biosystems Engineering Technology 202 .....	3	
Chemistry 100*-110* or 120*-130* .....	8	
Environmental and Soil Sciences 210 .....	4	
Food Science and Technology 269 .....	2	
<sup>1,2</sup> Arts and Humanities Elective .....	3	
Plant Sciences 120 and 335 .....	5	
<sup>1,2</sup> Social Sciences Elective* .....	3	
<b>Junior</b>		
Agricultural Economics 342 .....	3	
Agricultural and Extension Education 345 .....	3	
Educational Psychology 210 .....	3	
Cultural Studies in Education 400 .....	2	
Educational Psychology 401 .....	2	
Special Education 402 .....	2	
Entomology and Plant Pathology 313 or 321 .....	3	
<sup>1,2</sup> Cultures and Civilizations Elective* .....	3	
<sup>3</sup> Health Elective .....	3	
Plant Sciences 330 or 430 .....	2-3	
<b>Senior</b>		
Agricultural and Extension Education 435 and 436 .....	12	
Agricultural and Extension Education 434 .....	3	
Animal Science 381 .....	3	
Biosystems Engineering Technology 452 .....	3	
<sup>1,2</sup> Cultures and Civilizations Elective* .....	3	
<sup>1,2</sup> Arts and Humanities Elective* .....	3	
Free Electives .....	1-2	
		Total 124

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists.

<sup>2</sup> One of the University General Education Electives or Free Electives must be a writing-intensive (WC) course.

<sup>3</sup> Health elective list is available and should be selected in conference with academic advisor.

## REVISE AGRICULTURAL SCIENCE MAJOR: AGRICULTURAL EXTENSION EDUCATION CONCENTRATION

➤ On page 55 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Agriculture - Agricultural Science Major - Agricultural Extension Education Concentration**

	Hours Credit
<b>Freshman</b>	
Agricultural and Extension Education 211 .....	3
Agriculture and Natural Resources 100 .....	1
Agriculture and Natural Resources 290 .....	3
Animal Science 280 .....	3
Biology 101*-102* or 130*-140* .....	8
English 101*, 102* .....	6
Mathematics 113* and Quantitative Reasoning course* .....	6
<b>Sophomore</b>	
Agricultural and Extension Education 201 .....	1
Agricultural Economics 212 .....	3
Animal Science 220 .....	3
Chemistry 100*, 110* or 120*-130* .....	8
Economics 201* .....	4
Psychology 110* .....	3
Environmental and Soil Sciences 210 .....	4
Plant Sciences 120 .....	2
Communication Studies 210* .....	3
<b>Junior</b>	
Agricultural and Extension Education 345 .....	3
Agricultural Economics 342 .....	3
Animal Science 330 .....	3
Entomology and Plant Pathology 313 (recommended course) or 321 .....	3
Environmental and Soil Sciences 344 .....	3
Food Science and Technology 269 .....	2
Forestry, Wildlife and Fisheries 250 .....	3
<sup>1,2</sup> Cultures and Civilizations Elective* .....	3
<sup>1,2</sup> Arts and Humanities Elective* .....	3
Plant Sciences 335 .....	3
<b>Senior</b>	
<sup>2</sup> Agricultural Sciences and Natural Resources Electives .....	3
Animal Science 381 .....	3
Agricultural and Extension Education 434 .....	3
Biosystems Engineering Technology 432 .....	3
Biosystems Engineering Technology 442 .....	3
Biosystems Engineering Technology 462 .....	3
<sup>2</sup> Free Electives .....	7-8
<sup>1,2</sup> Cultures and Civilizations Elective* .....	3
<sup>1,2</sup> Arts and Humanities Elective* .....	3
Plant Sciences 330 or 430 .....	2-3
<hr/> Total 124	

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists.

<sup>2</sup> One of the University General Education Electives, Agricultural Sciences and Natural Resources Electives or Free Electives must be a writing-intensive (WC) course.

**DEPARTMENT OF ANIMAL SCIENCE**

REVISE DESCRIPTIVE TEXT IN CATALOG

- On page 56, first paragraph in the left-hand column, of the 2004-2005 Undergraduate Catalog, revise descriptive text to  
 The curriculum is designed to prepare students for leadership careers in livestock production and related industries. Courses in horse, swine, poultry, sheep, dairy, beef cattle and companion, zoo and lab animal production and management may be elected, providing the opportunity for special or additional training in the dynamic livestock and husbandry technology (production) areas.

REVISE ANIMAL SCIENCE MAJOR: PRODUCTION/BUSINESS CONCENTRATION

- On page 56, left-hand column, in the 2004-2005 Undergraduate Catalog, REVISE the showcase in the senior year and footnotes 2 and 3.

**Requirements for the Bachelor of Science in Animal Science - Animal Science Major - Production/Business Concentration**

**Senior Year**

<sup>2</sup> Business Minor or <sup>3</sup> Agricultural Economics and Business Minor .....	10
Free Electives.....	8-10

<sup>2</sup> Requirements for the business minor: Accounting 200 (3); Economics 201 (4); Statistics 201 (3); Business Administration 201 (4); Finance 301 (3); Marketing 300 (3); Management 300 (3). Total 23 hours.

<sup>3</sup> Requirements for an agricultural economics and business minor: Economics 201 (4), Agricultural Economics 212, 342, 350, 412 (12), Agricultural Economics Elective (3). Total 19 hours. Should the student elect the agricultural economics and business minor, he/she should select another 4 hours of College of Business Administration **or** Agricultural Economics coursework beyond the required 19 hours for the agricultural economics and business minor).

**DEPARTMENT OF BIOSYSTEMS ENGINEERING AND ENVIRONMENTAL SCIENCES**

## REVISE BIOSYSTEMS ENGINEERING MAJOR

➤ On page 59 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Biosystems Engineering - Biosystems Engineering Major**

	Hours Credit
<b>Freshman</b>	
Biosystems Engineering 104 .....	1
Engineering Fundamentals 105, 151, 152, 202 .....	11
<sup>1</sup> Chemistry 120* .....	4
<sup>1,2</sup> Mathematics 141*, 142* .....	8
<sup>1</sup> English 101*, 102* .....	6
<sup>3</sup> Cultures and Civilizations Elective* .....	3
<b>Sophomore</b>	
Biosystems Engineering 201, 221, 231, 321 .....	10
Mechanical Engineering 231, 321 .....	6
Nuclear Engineering 203 .....	3
Mathematics 231, 241 .....	7
Microbiology 210* .....	3
Environmental and Soil Sciences 210 .....	4
<b>Junior</b>	
Biosystems Engineering 411, 416, 431, 451 .....	13
Statistics 251 .....	3
Electrical and Computer Engineering 301 .....	3
Mathematics 200 .....	1
<sup>4</sup> Fluid Science Elective .....	3
<sup>5</sup> Technical Elective .....	3
<sup>3</sup> Arts and Humanities Elective* .....	3
English 360* .....	3
<b>Senior</b>	
Biosystems Engineering 401*, 402, 403, 444 .....	14
<sup>5</sup> Technical Elective .....	3
Economics 201 (Social Sciences Elective)* .....	4
<sup>3</sup> Social Sciences Elective* .....	3
<sup>3</sup> Arts and Humanities Elective* .....	3
<sup>3</sup> Cultures and Civilizations Elective* .....	3
<hr/> Total 128	

\*Meets University General Education Requirement.

<sup>1</sup>Or equivalent honors course.

<sup>2</sup>If mathematics placement test does not indicate placement into at least Mathematics 141, discuss mathematics options with advisor.

<sup>3</sup>Select from the corresponding University General Education list after consultation with advisor.

<sup>4</sup>Select from Civil and Environmental Engineering 390 or Aerospace Engineering 341 after consultation with advisor.

<sup>5</sup>Typically, upper-division courses in engineering or related areas. Must be approved in advance by advisor.

REVISE BIOSYSTEMS ENGINEERING MAJOR: PRE-PROFESSIONAL CONCENTRATION

➤ On pages 59-60 of the 2004-2005 Undergraduate Catalog, revise to

**Pre-Professional Concentration**

The pre-professional concentration provides comprehensive training in biosystems engineering while preparing the student for candidacy to medical school. While this program meets most of the general published pre-med requirements, it is the student's responsibility to work with an academic advisor to ensure that his/her program meets the demands of specific schools.

**Requirements for the Bachelor of Science in Biosystems Engineering - Biosystems Engineering Major - Pre-Professional Concentration**

	Hours Credit
<b>Freshman</b>	
Biosystems Engineering 104 .....	1
Engineering Fundamentals 105, 151, 152, 202 .....	11
<sup>1</sup> Chemistry 120*, 130* .....	8
<sup>1,2</sup> Mathematics 141*, 142* .....	8
<sup>1</sup> English 101*,102* .....	6
<b>Sophomore</b>	
Biosystems Engineering 201, 221, 231, 321 .....	10
Mechanical Engineering 231, 321 .....	6
Nuclear Engineering 203 .....	3
Mathematics 231, 241 .....	7
Biology 130* .....	4
Chemistry 350 .....	3
<b>Junior</b>	
Biosystems Engineering 411, 431, 451 .....	10
Statistics 251 .....	3
Electrical and Computer Engineering 301 .....	3
Mathematics 200 .....	1
<sup>3</sup> Fluid Science Elective .....	3
English 360* .....	3
Chemistry 360, 369 .....	5
<sup>4</sup> Arts and Humanities Elective* .....	3
<b>Senior</b>	
Biosystems Engineering 401*, 402, 403, 444 .....	14
Economics 201 (Social Sciences Elective)* .....	4
<sup>4</sup> Social Sciences Elective* .....	3
<sup>4</sup> Arts and Humanities Elective* .....	3
<sup>4</sup> Cultures and Civilizations Electives* .....	6
<b>Total 128</b>	

\*Meets University General Education Requirement.

<sup>1</sup>Or equivalent honors course.

<sup>2</sup>If mathematics placement test does not indicate placement into at least Mathematics 141, discuss mathematics options with advisor.

<sup>3</sup>Select from Civil and Environmental Engineering 390 or Aerospace Engineering 341 after consultation with advisor.

<sup>4</sup>Select from the corresponding University General Education list after consultation with advisor.

REVISE BIOSYSTEMS ENGINEERING TECHNOLOGY MINOR

➤ On page 60, column 1 of the 2004-2005 UG Catalog, revise second line of course requirements for Minor in Biosystems Engineering Technology to

Select three from: 414, 422, 434, 442, 452, 462, 474.....9

REVISE TECHNICAL ELECTIVE LIST FOR SOIL SCIENCE AND ENVIRONMENTAL SCIENCE CONCENTRATIONS- OF THE ENVIRONMENTAL AND SOIL SCIENCES MAJOR (PAGE 62, 2004-2005 UNDERGRADUATE CATALOG)

Delete Botany 305 – Add EEB 304; Delete Botany 306 – Add BCMB 306; Delete Botany 310 – Add EEB 410; Delete Botany 321 – Add BCMB 321; Delete Botany 330 – Add EEB 330; Delete Botany 404 – Add BCMB 404; Delete Botany 412 – Add EEB 414; Delete Botany 431 – Add EEB 433; Delete Botany 451 – Add EPP 451; Delete Botany 499 – Add EEB 495.

REVISE ENVIRONMENTAL AND SOIL SCIENCES MAJOR: ENVIRONMENTAL SCIENCE CONCENTRATION

➤ On page 60 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Environmental and Soil Sciences - Environmental and Soil Sciences Major - Environmental Science Concentration**

	Hours Credit
<b>Freshman</b>	
Biology 130*, 140* .....	8
Chemistry 120*, 130* .....	8
English 101*, 102* .....	6
Environmental and Soil Sciences 120* .....	3
Mathematics 151*, 152* .....	6
<b>Sophomore</b>	
<sup>1</sup> Arts and Humanities Elective* .....	3
Agriculture and Natural Resources 290 .....	3
Biology 250 .....	4
Economics 201* .....	4
Environmental and Soil Sciences 210 .....	4
Geology 101* .....	4
Microbiology 210* .....	3
Statistics 201* .....	3
Physics 221* .....	4
<b>Junior</b>	
English 295* or 360* or Journalism and Electronic Media 200* .....	3
Biosystems Engineering Technology 326 .....	3
Chemistry 350 or 110* .....	3-4
<sup>1</sup> Cultures and Civilizations Electives* .....	3
Environmental and Soil Sciences 301*, 324, 334, 355 .....	10
<sup>1</sup> Social Sciences Elective* .....	3
Philosophy 245* .....	3
Technical Elective .....	3
<b>Senior</b>	
Agricultural Economics 470 or Economics 462 or Industrial Engineering 405 .....	3
Biosystems Engineering Technology 212 or 474 .....	3
Environmental and Soil Sciences 434, 444, 462, 481 .....	12
Technical Electives .....	9
Free Electives .....	2-3
<b>Total 124</b>	

\*Meets University General Education Requirement.  
<sup>1</sup>Choose from the University General Education lists.

REVISE ENVIRONMENTAL AND SOIL SCIENCES MAJOR: SOIL SCIENCE CONCENTRATION

➤ On page 61 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Environmental and Soil Sciences - Environmental and Soil Sciences Major - Soil Science Concentration**

	Hours Credit
<b>Freshman</b>	
Biology 130*, 140* .....	8
Chemistry 120*, 130* .....	8
English 101*, 102* .....	6
Environmental and Soil Sciences 120* .....	3
Mathematics 151*, 152* .....	6
<b>Sophomore</b>	
Agriculture and Natural Resources 290 .....	3
<sup>1</sup> Arts and Humanities Elective* .....	3
<sup>1</sup> Cultures and Civilizations Elective* .....	3
Economics 201* .....	4
Environmental and Soil Sciences 210 .....	4
Geology 101* .....	4
Microbiology 210* .....	3
Physics 221* .....	4
Statistics 201* .....	3
<b>Junior</b>	
Biosystems Engineering Technology 212 or 326.....	3
Chemistry 110* or 350 .....	3-4
Chemistry 310 and 319.....	4
Environmental and Soil Sciences 301*, 324, 334, 355.....	10
Philosophy 245* .....	3
Plant Sciences 335 .....	3
Technical Electives .....	3
English 295* or 360*, or Journalism and Electronic Media 200*.....	3
<b>Senior</b>	
Agricultural Economics 470 or Economics 462.....	3
Environmental and Soil Sciences 434, 442, 444, 462, 481 .....	15
<sup>1</sup> Social Sciences Elective* .....	3
Technical Electives .....	6
Free Electives .....	2-3
<b>Total 124</b>	

\*Meets University General Education Requirement.

<sup>1</sup>Choose from the University General Education lists.



## REVISE ENVIRONMENTAL AND SOIL SCIENCES MAJOR: AGRICULTURAL SYSTEMS TECHNOLOGY CONCENTRATION

➤ On page 61 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Environmental and Soil Sciences - Environmental and Soil Sciences Major - Agricultural Systems Technology Concentration**

	<b>Hours Credit</b>
<b>Freshman</b>	
Biology 111*, 112* .....	8
Chemistry 120*, 130* .....	8
English 101*, 102* .....	6
Mathematics 151*, 152* .....	6
<sup>1</sup> Social Sciences Elective* .....	3
<b>Sophomore</b>	
Agricultural Economics 212 .....	3
Agriculture and Natural Resources 290 .....	3
Biosystems Engineering Technology 212 .....	3
<sup>1</sup> Cultures and Civilizations Elective* .....	3
Economics 201* .....	4
Environmental and Soil Sciences 210, 334 .....	7
Communication Studies 210* or 240* .....	3
Physics 221* .....	4
Statistics 201* .....	3
<b>Junior</b>	
Agricultural Economics 350 or 355 .....	3
<sup>1</sup> Arts and Humanities Elective* .....	3
Biosystems Engineering Technology 326 .....	3
<sup>1</sup> Cultures and Civilizations Elective* .....	3
English 360* .....	3
Entomology and Plant Pathology 313, 321 .....	6
Environmental and Soil Sciences 301* .....	1
Environmental and Soil Sciences 324 .....	3
Plant Sciences 457 .....	2
Technical Elective .....	3
<b>Senior</b>	
<sup>1</sup> Arts and Humanities Elective* .....	3
Biosystems Engineering Technology 414, 432, 434, 462, 474 .....	15
Environmental and Soil Sciences 481 .....	3
Industrial Engineering 405 .....	3
Technical Electives .....	6
<hr/> Total 124	

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists.

## REVISE ENVIRONMENTAL AND SOIL SCIENCES MINOR

➤ On page 62, column 1 in the 2004-2005 UG Catalog, revise to

**Minor in Environmental and Soil Sciences**

	<b>Hours Credit</b>
Environmental and Soil Sciences 210, 324, 334 .....	10
Electives in Environmental and Soil Sciences and/or Biosystems Engineering Technology at the 300 level or higher .....	9
<hr/> Total 19	

**DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY**

## REVISE FOOD SCIENCE AND TECHNOLOGY MAJOR – SCIENCE CONCENTRATION AND TECHNOLOGY/BUSINESS CONCENTRATION

Change footnote 3 to:

<sup>3</sup>May be chosen from Biology 101, 102, 111, 112, or 130.

**DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES**

## ADD CONCENTRATION

**Wildlife and Fisheries Science major – Wildlife and Fisheries Management concentration**

- On the Undergraduate Majors, Minors, Concentrations, Degrees Chart (page 8) and alphabetical listing of majors and concentrations (page 1 of the 2004-2005 Undergraduate Catalog, add the **Wildlife and Fisheries Management concentration**

DEPARTMENT	·MAJOR	MINOR	CONCENTRATION	DEGREEE
Forestry, Wildlife and Fisheries	·Wildlife and Fisheries Sciences	YES _____	Majors must choose a concentration  _____ <ul style="list-style-type: none"> <li>°Wildlife and Fisheries Management</li> <li>°Wildlife Health</li> </ul>	BS in Wildlife and Fisheries Science

- On page 49 of the 2004-2005 Undergraduate Catalog, revise Majors, Concentrations and Departments to  
  
Wildlife and fisheries science with concentrations in wildlife and fisheries management and wildlife health (Department of Forestry, Wildlife and Fisheries)
- Revise catalog text on page 65, top of left-hand column to  
  
The department offers two majors. The major in forestry leads to a Bachelor of Science in Forestry and the major in wildlife and fisheries science leads to a Bachelor of Science in Wildlife and Fisheries Science. The forestry major has two concentrations: forest resources management and wildland recreation. The wildlife and fisheries science major has two concentrations: wildlife and fisheries management and wildlife health.

## REVISE CORE COURSES FOR FORESTRY MAJOR AND WILDLIFE AND FISHERIES SCIENCE MAJOR

- On page 65, bottom of left-hand column, of the 2004-2005 Undergraduate Catalog, revise to

**CORE COURSES**

Students must have completed or be enrolled in all core courses by the end of the semester in which they apply for acceptance into upper-division courses. They must complete all core courses before entering upper-division courses. They will also need the prerequisites to the individual upper-division courses.

**Forestry**

Two courses in English composition (English 101 and 102 or equivalent); calculus (Mathematics 125 or equivalent); general chemistry (Chemistry 100 or equivalent); two courses in general botany (Biology 111 and 112 or equivalent); general economics (Economics 201 or equivalent); public speaking (Communication Studies 210 or 240 or equivalent) and statistics (Statistics 201 or equivalent); microcomputer applications (Agriculture and Natural Resources 290 or equivalent); general ecology (Biology 250 or equivalent).

**Wildlife and Fisheries Science**

Two courses in English composition (English 101 and 102 or equivalent); calculus (Mathematics 125 or equivalent); two courses in general chemistry (Chemistry 120/130 or 100/110 or equivalent); two courses in general biology (Biology 130/140 or 101/102 or equivalent); general economics (Economics 201 or equivalent); public speaking (Communication Studies 210 or 240 or equivalent); statistics (Statistics 201 or equivalent); microcomputer applications (Agriculture and Natural Resources 290 or equivalent); general ecology (Biology 250 or equivalent).

REVISE FORESTRY MAJOR: FOREST RESOURCES MANAGEMENT CONCENTRATION

➤ On pages 65-66 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Forestry - Forestry Major - Forest Resources Management Concentration**

	Hours Credit
<b>Freshman</b>	
English 101*, 102* .....	6
Mathematics 125* .....	3
Biology 111*, 112* .....	8
Forestry 100.....	3
Chemistry 100* .....	4
<sup>1</sup> Social Science Elective*.....	3
<sup>2</sup> Electives.....	3
<b>Sophomore</b>	
Economics 201* .....	4
Statistics 201* .....	3
Agriculture and Natural Resources 290 or Biosystems Engineering Technology 326 or Geography 411 .....	3
Forestry, Wildlife and Fisheries 212.....	3
Forestry 214, 215.....	6
Communication Studies 210* or 240* .....	3
Environmental and Soil Sciences 210 .....	4
<sup>3</sup> Cultures and Civilizations Elective* .....	3
<b>Junior</b>	
Forestry, Wildlife and Fisheries 312*, 313, 317 .....	8
Forestry 305, 306, 314, 321, 322, 323, 326, 329, 330.....	19
<sup>3</sup> Arts and Humanities Elective* .....	3
<b>Senior</b>	
Forestry, Wildlife and Fisheries 410, 412, 416.....	9
Forestry 331, 332, 420, 422.....	8
<sup>2</sup> Ethics Elective.....	3
<sup>3</sup> Cultures and Civilizations Elective* .....	3
<sup>3</sup> Arts and Humanities Elective* .....	3
<sup>2</sup> Communications Elective.....	3
<sup>2</sup> Electives.....	2
<hr/> Total 120	

\* Meets University General Education Requirement.

<sup>1</sup> Choose from Anthropology 130\*, Political Science 102\*, Psychology 110\* or 117\*, Sociology 110\*, 117\*, or 120\*.

<sup>2</sup> Electives are chosen in conference with advisor.

<sup>3</sup> General Education Electives: Choose two courses from the Cultures and Civilizations list and two from the Arts and Humanities list for a total of 12 credit hours. Forestry, Wildlife and Fisheries 312 meets the General Education Requirement for Communicating through Writing.

## REVISE FORESTRY MAJOR: WILDLAND RECREATION CONCENTRATION

➤ On page 66 of the 2004-2005 Undergraduate Catalog, revise to

**Requirements for the Bachelor of Science in Forestry - Forestry Major - Wildland Recreation Concentration**

	<b>Hours Credit</b>
<b>Freshman</b>	
Forestry 100.....	3
English 101*, 102* .....	6
Mathematics 125* .....	3
Biology 111*, 112* .....	8
Chemistry 100* .....	4
Psychology 110*, Sociology 120*, Political Science 102*, Sociology 110*, or Anthropology 130* .....	3
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities* Elective .....	3
<sup>2</sup> Elective.....	3
<b>Sophomore</b>	
Forestry, Wildlife and Fisheries 212.....	3
Forestry 214, 215.....	6
Economics 201* .....	4
Statistics 201* .....	3
Communication Studies 210* or 240* .....	3
Environmental and Soil Sciences 210 .....	4
Select one from Art Media Arts 231, 236; Communication Studies 220, 270, 310, 320, 330, 420; English 295*; Journalism and Electronic Media 201*, 290, 412, 450*, 451*, 488.....	3
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities* Elective .....	6
<b>Junior</b>	
Forestry, Wildlife and Fisheries 312*, 313, 317 .....	8
Forestry 321, 423.....	6
Forestry 314, Political Science 440, 441, Plant Sciences 427, or Management 440 .....	2-3
Recreation 310, 410, 415, 430, 470.....	3
Biosystems Engineering Technology 212, 326; Geography 310, 410, 411, 413; Political Science 403; Agriculture and Natural Resources 290.....	3
Select one course from Sociology 345, 360, 370, 464, 465; Philosophy 245*; Geography 320, 323, 345.....	3
Select one course from Plant Sciences 280, 350, 370, 421, 437 .....	2-3
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities* Elective .....	3
<b>Senior</b>	
Forestry 422,495.....	9
Forestry, Wildlife and Fisheries 412, 416 .....	6
Select one from Forestry, Wildlife and Fisheries 410, Wildlife and Fisheries Science 443, 444, 445.....	3
<sup>2</sup> Electives .....	5-7
<b>Total</b>	<b>120</b>

\*Meets University General Education Requirement.

<sup>1</sup> General Education Electives: Choose two courses from the Cultures and Civilizations list and two from the Arts and Humanities list for a total of 12 credit hours. Forestry, Wildlife and Fisheries 312 meets the General Education Requirement for Communicating through Writing.

<sup>2</sup> Electives are chosen in conference with advisor.

REVISE WILDLIFE AND FISHERIES SCIENCE MAJOR SHOWCASE TO REFLECT THE ADDITION OF THE CONCENTRATION IN WILDLIFE AND FISHERIES SCIENCE MANAGEMENT

➤ On page 67 of the 2004-2005 Undergraduate Catalog, revise Wildlife and Fisheries Science Major to

**Requirements for the Bachelor of Science in Wildlife and Fisheries Science - Wildlife and Fisheries Science Major - Wildlife and Fisheries Science Management Concentration**

	Hours Credit
<b>Freshman</b>	
Forestry, Wildlife and Fisheries 211 or 250* .....	3
English 101*,102* .....	6
Biology 130*-140* or 101*-102* .....	8
Chemistry 120*-130* or 100*-110*.....	8
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities Elective* .....	6
<b>Sophomore</b>	
Statistics 201* .....	3
Agriculture and Natural Resources 290 or Biosystems Engineering Technology 326 or Geography 411 .....	3
Mathematics 125* .....	3
Communication Studies 210* or 240*.....	3
Animal Science 220 or Ecology and Evolutionary Biology 350 .....	3-4
Environmental and Soil Sciences 210 .....	4
Economics 201*.....	4
Biology 250 .....	4
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities Elective* .....	6
<b>Junior</b>	
Forestry, Wildlife and Fisheries 212, 312*, 313, 317 .....	11
Wildlife and Fisheries Science 305, 323, 340, 341, 350, 440, 442 ....	16
Ecology and Evolutionary Biology 470 or Environmental and Soil Sciences 324 .....	3-4
<b>Senior</b>	
Forestry, Wildlife and Fisheries 410, 416.....	6
Wildlife and Fisheries Science 443, 444, 445.....	9
Ecology and Evolutionary Biology 474.....	4
Forestry, Wildlife and Fisheries 412 or Forestry 321*, 422.....	3
<sup>2</sup> Science Electives.....	6
<sup>1</sup> Social Science Elective* .....	3
<hr/> Total 125-127 <hr/>	

Meets University General Education Requirement.

<sup>1</sup> General Education Electives: Choose two courses from the Cultures and Civilizations list and two from the Arts and Humanities list for a total of 12 credit hours. Forestry, Wildlife and Fisheries 312 meets the General Education Requirement for Communicating through Writing.

<sup>2</sup> 300-level and above from Animal Science; Biochemistry and Cellular and Molecular Biology; Biosystems Engineering Technology; Ecology and Evolutionary Biology; Entomology and Plant Pathology; Environmental and Soil Sciences; Forestry; Forestry, Wildlife and Fisheries; Plant Sciences; Wildlife and Fisheries Science; and Geography 410, 411, 412, 413, 436.

REVISE WILDLIFE AND FISHERIES SCIENCE – WILDLIFE HEALTH CONCENTRATION

- On page 67 of the 2004-2005 Undergraduate Catalog, revise Wildlife and Fisheries Science Major: Wildlife Health Concentration to

**Requirements for the Bachelor of Science in Wildlife and Fisheries Science - Wildlife and Fisheries Science Major - Wildlife Health Concentration**

	Hours Credit
<b>Freshman</b>	
Wildlife and Fisheries Science 101 .....	1
Forestry, Wildlife and Fisheries 211 or 250* .....	3
English 101*, 102* .....	6
Biology 130*-140* .....	8
Chemistry 120*-130* .....	8
Statistics 201* .....	3
Mathematics 125* .....	3
<b>Sophomore</b>	
Wildlife and Fisheries Science 201 .....	1
Biology 240, 250 .....	8
Chemistry 350, 360, 369 .....	8
Physics 221* 222* .....	8
Microbiology 310, 319 .....	5
<b>Junior</b>	
Forestry, Wildlife and Fisheries 317 .....	3
Communications Studies 210* or 240* .....	3
Wildlife and Fisheries Science 301 .....	3
Biochemistry and Cellular and Molecular Biology 440 .....	3
Ecology and Evolutionary Biology 350 .....	4
Animal Science 380 .....	3
Microbiology 420 or 430 .....	3
Economics 201* .....	4
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities Elective* .....	6
<b>Senior</b>	
Forestry, Wildlife and Fisheries 410 .....	3
Wildlife and Fisheries Science 443, 444, 445 .....	9
Microbiology 470 or <sup>2</sup> Wildlife and Fisheries 496 .....	3
Biochemistry and Cellular and Molecular Biology 410 .....	4
<sup>1</sup> Social Science Elective* .....	3
<sup>1</sup> Cultures and Civilizations* or Arts and Humanities Elective* .....	6
<hr/> Total 122	

\*Meets University General Education Requirement.

<sup>1</sup>General Education Electives: Choose two from the Cultures and Civilizations (CC) list, two courses from the Arts and Humanities (AH) list, one from the Social Sciences (SS) list for a total of 15 credit hours. One of the Cultures and Civilizations (CC) or Arts and Humanities (AH) or Social Sciences (SS) courses must be writing-intensive (WC).

<sup>2</sup>Must be a department-approved internship.

REVISE WILDLIFE AND FISHERIES SCIENCE MINOR

- On page 67 of the 2004-05 Undergraduate Catalog, 2<sup>nd</sup> column, revise Wildlife and Fisheries Science minor to

**Minor in Wildlife and Fisheries Science**

	Hours Credit
Forestry, Wildlife and Fisheries 211 or 250 .....	3
Forestry, Wildlife and Fisheries 317 .....	3
Select three from Forestry, Wildlife and Fisheries 410, 416; Wildlife and Fisheries Science 443, 444, 445 .....	9
<hr/> Total 15	

**DEPARTMENT OF PLANT SCIENCES**PLANT SCIENCES MAJOR - DROP CONCENTRATIONS IN

Business Management  
Horticulture and Agronomy  
Landscape Design  
Turfgrass Management

Note: The Public Horticulture concentration is not dropped.

PLANT SCIENCES MAJOR - ADD CONCENTRATIONS IN

Landscape Design and Construction  
Plant Science, Biotechnology and Horticulture  
Turfgrass Science and Management

## REVISE CATALOG ENTRY

- Revise the Undergraduate Majors, Minors, Concentrations, Degrees Chart (page 8) and alphabetical listing of majors and concentrations (page 1 of the 2004-2005 Undergraduate Catalog, to reflect the change in concentrations to

DEPARTMENT	·MAJOR	MINOR	CONCENTRATION	DEGREEE
Plant Sciences	·Plant Sciences	YES _____	Majors must choose a concentration  _____ <ul style="list-style-type: none"> <li>°Landscape Design and Construction</li> <li>°Plant Science, Biotechnology and Horticulture</li> <li>°Public Horticulture</li> <li>°Turfgrass Science and Management</li> </ul>	BS in Plant Sciences

- On page 49 of the 2004-2005 Undergraduate Catalog, REVISE Majors, Concentrations and Departments to
  - Plant sciences with concentrations in landscape design and construction; plant science, biotechnology and horticulture; public horticulture; turfgrass science and management; (Department of Plant Sciences)

## REVISE INTRODUCTORY CATALOG TEXT, ENROLLMENT MANAGEMENT PLAN, AND CORE COURSES TO REFLECT COURSE AND CONCENTRATION CHANGES

- On pp. 68-71 of 2004-2005 Undergraduate Catalog, revise to

Academic programs in the Department of Plant Sciences span the art, science and technology of plant use in society. Students receive preparation for careers in horticulture and agronomy within four concentrations: (1) landscape design and construction; (2) plant science, biotechnology and horticulture; (3) public horticulture; and (4) turfgrass science and management. With the increasing emphasis placed on plants in urban areas, we offer particularly extensive training in landscape horticulture: planning, implementation and management for landscapes, turf and gardens. We also offer comprehensive programs in plant biotechnology and plant production.

Upon entering our department, each student is assigned a faculty advisor to guide them in selection of career specialties and elective courses. The curriculum builds upon the university-wide general education requirements with critical courses in botany, soils, and business, and adds a set of required departmental courses specific to each concentration. Students are able to customize their program by selecting electives. Students in all concentrations are trained to work knowledgeably in general plant culture. Students are encouraged to earn a minor degree in a supportive field to further enhance their academic training and professional competitiveness. While firmly grounding students in the knowledge and skills of the plant sciences and arts, our curricula emphasize critical thinking and creative activity. Our students also gain the theoretical education necessary for continuing on for advanced degrees in plant related fields.

Internship or undergraduate research participation is required for each concentration. Full-time summer internships are available at selected local, regional, and national companies or institutions. Part-time summer or semester internships and research experiences are available from the Department of Plant Sciences, other university departments and laboratories, and local commercial firms.

Our graduates find employment in a wide variety of professions. In working for others or within their own business, graduates of the landscape concentration design residential landscapes, select proper woody and herbaceous plant materials for specific sites, restore native landscapes, specify specialty components dealing with landscape construction (irrigation, lighting, water features), prepare materials lists and cost estimates for landscape installations, and manage landscape crews. Turf majors have career opportunities in the industries involved with lawn management, athletic fields, golf courses, sales, and park and grounds

maintenance. The public horticulture concentration prepares students for careers in botanic gardens, zoos and national parks; professional writing, television and radio; urban forestry; teaching; and municipal and university horticulture. Graduates in plant science, biotechnology and horticulture find employment in education, consulting, sales, agricultural extension, and research and development.

#### **Enrollment Management Plan**

Students should declare a concentration early in their undergraduate program and strictly follow the curriculum described for the concentration. Students who transfer into plant sciences from other colleges or programs must meet the same requirements as those entering the department as freshmen.

All students in the Department of Plant Sciences must meet certain requirements before registering for upper-division plant sciences classes. Admittance to each of the departmental concentrations will be determined by completion of core courses for a particular concentration with a C or better for an individual concentration, completion of a minimum of 62 credit hours toward the degree, and a minimum cumulative grade point average (GPA) of 2.25.

To be considered for progression into the upper division of the program, majors must submit an application of intent for progression prior to registering for upper-division courses. Faculty members will review students, transcripts for completion of all core courses and cumulative GPA. Students must have completed all but 3 core courses for their concentration by the end of the semester in which they apply for acceptance into upper-division courses. They must complete all core courses before entering upper-division courses. They will also need the prerequisites to these individual upper-division courses.

Once admitted for progression to upper-division programs, students must maintain a cumulative GPA of 2.25. Junior and senior majors in plant sciences whose cumulative GPA falls below the minimum of 2.25 will not be allowed to register in departmental upper-division classes until they again meet the required GPA for progression.

#### **Core Courses**

The core courses for the plant sciences concentrations, required for entry into upper-division courses, are:

**Landscape Design and Construction Concentration:** two courses in English composition (English 101 and 102 or equivalent); Mathematics 113 or 123 or 151 or equivalent; Computer Sciences 100 or 102 or equivalent; general chemistry (Chemistry 100 or 120 or equivalent); two courses in general botany (Biology 111 and 112 or equivalent); soil science (Environmental and Soil Sciences 210 or equivalent); Basic Landscape Plants (Plant Sciences 220 or equivalent); Fundamentals of Landscape Design (Plant Sciences 280 or equivalent).

**Plant Science, Biotechnology and Horticulture Concentration:** two courses in English composition (English 101 and 102 or equivalent); two courses in mathematics (Mathematics 123 and 125 or Mathematics 151 and 152 or equivalent); two courses in general chemistry (Chemistry 100 and 110 or 120 and 130 or equivalent); two courses in general botany (Biology 111 and 112 or equivalent); soil science (Environmental and Soil Sciences 210 or equivalent); Computer Applications to Problem Solving (Agriculture and Natural Resources 290 or equivalent).

**Public Horticulture Concentration:** two courses in English composition (English 101 and 102 or equivalent); Mathematics 113 or 123 or 151 or equivalent; Computer Sciences 100 or 102 or equivalent; general chemistry (Chemistry 100 or 120 or equivalent); two courses in general botany (Biology 111 and 112 or equivalent); soil science (Environmental and Soil Sciences 210 or equivalent); a plant materials course (Plant Sciences 220 or 230 or 290 or equivalent); Public Horticulture (Plant Sciences 226 or equivalent).

**Turfgrass Science and Management Concentration:** two courses in English composition (English 101 and 102 or equivalent); two courses in mathematics (Mathematics 123 and 125 or equivalent); two courses in general chemistry (Chemistry 100 and 110 or 120 and 130 or equivalent); two courses in general botany (Biology 111 and 112 or equivalent); soil science (Environmental and Soil Sciences 210 or equivalent); Turfgrass Management (Plant Sciences 240 or equivalent); Computer Applications to Problem Solving (Agriculture and Natural Resources 290 or equivalent).



REPLACE SHOWCASES AND INTRODUCTORY CATALOG TEXT FOR DROPPED CONCENTRATIONS WITH SHOWCASES AND TEXT FOR NEW CONCENTRATIONS AND REVISE THE PUBLIC HORTICULTURE CONCENTRATION SHOWCASE

## PLANT SCIENCES MAJOR

### Landscape Design and Construction Concentration

Landscape designers create aesthetic concepts and practical designs for improved outdoor living. Students study fundamental and advanced landscape design, landscape design graphics, computer aided landscape design, surveying, art, socio-economic impact of plants, field botany, professional practices, contracting, basic woody plant identification, landscape construction and maintenance methods. The development of comprehensive design projects helps students prepare for careers in landscape design or advanced studies in landscape architecture. Graduates in design and construction are prepared for employment in several professions in ornamental horticulture. Careful selection of departmental courses and other electives in consultation with the assigned academic advisor will allow graduates to pursue suitable career paths.

### Requirements for the Bachelor of Science in Plant Sciences • Plant Sciences Major • Landscape Design and Construction Concentration

	Hours Credit
<b>Freshman</b>	
Biology 111*, 112* .....	8
Chemistry 100* or 120* .....	4
Computer Science 100* or 102* .....	3
English 101*, 102* .....	6
Mathematics 113*, 123* or 151* .....	3
Plant Sciences 120 .....	2
<sup>1</sup> Social Sciences Elective* .....	3
<b>Sophomore</b>	
<sup>1</sup> Arts and Humanities Elective* .....	3
Communication Studies 210* or 240* .....	3
Economics 201* .....	4
Environmental and Soil Sciences 210 .....	4
Plant Sciences 210, 220, 280 .....	8
Technical Electives .....	6
Unrestricted Elective .....	3
<b>Junior</b>	
<sup>1</sup> Cultures and Civilizations Elective* .....	3
Plant Sciences 350, 380 .....	6
Select from Plant Sciences 226, 230, 240, 330, 360, or 370.....	5-6
Plant Sciences 290 or 291 .....	3
Technical Electives .....	6
Unrestricted Electives .....	6-7
<b>Junior Year Summer</b>	
Plant Sciences 492 .....	3
<b>Senior</b>	
Agricultural Economics 310 .....	1
<sup>1</sup> Arts and Humanities Elective* .....	3
<sup>1</sup> Cultures and Civilizations Elective* .....	3
Plant Sciences 421, 460, 480, 485 .....	11
Select from Plant Sciences 410, 427, 429, 430, 434, 441, 446, 450, or 493 .....	5-6
Technical Electives .....	7-8
<hr/> Total 124	

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists. Selection should be made in conference with academic advisor.

Students must meet the General Education requirement for Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.

**Plant Science, Biotechnology and Horticulture Concentration**

The plant science, biotechnology and horticulture concentration is for designed students desiring to pursue professions in biotechnology or commercial production of agronomic and horticultural crops. This concentration also prepares students for graduate studies in plant sciences. Careful selection of departmental courses and other electives in consultation with the assigned academic advisor will prepare graduates for the career of their choice. The concentration consists of two tracks of study: (1) emphasis in production horticulture and (2) emphasis in science and biotechnology.

**Requirements for the Bachelor of Science in Plant Sciences • Plant Sciences Major • Plant Science, Biotechnology and Horticulture Concentration**

	Hours	Credit
<b>Freshman</b>		
Biology 111*, 112* .....	8	
Chemistry 100 and 110*, or 120* and 130* .....	8	
English 101*, 102* .....	6	
Mathematics 151*, 152* .....	6	
Plant Sciences 120 .....	2	
<b>Sophomore</b>		
Agriculture and Natural Resources 290 .....	3	
Agricultural Economics 212 .....	3	
<sup>1</sup> Arts and Humanities Elective* .....	3	
Communication Studies 210* or 240* .....	3	
<sup>1</sup> Cultures and Civilizations Elective* .....	3	
Environmental and Soil Sciences 210 .....	4	
Economics 201* .....	4	
Plant Sciences 210 .....	2	
<sup>1</sup> Social Sciences Elective* .....	3	
Technical Electives .....	4	
<b>Junior</b>		
Agricultural Economics 310 .....	1	
Biochemistry and Cellular and Molecular Biology 321 or Forestry 414 .....	4	
<sup>1</sup> Cultures and Civilizations Elective* .....	3	
English 360* for Production Horticulture Track; OR Chemistry 350 for Science and Biotechnology Track .....	3	
Environmental and Soil Sciences 334 .....	3	
Plant Sciences 240, 241, 330, 335, 370, 410, 430, 434, or 435 .....	8	
Plant Sciences 457-458 or 457-459 or Entomology and Plant Pathology 313, 321, or 410 .....	6	
Technical Electives .....	3	
<b>Senior</b>		
<sup>1</sup> Arts and Humanities Elective* .....	3	
Plant Sciences 240, 241, 335, 370, 410, 430, 434, or 435 for Production Horticulture Track; or Plant Sciences 353, 454 for Science and Biotechnology Track .....	6	
Plant Sciences 470 .....	3	
Plant Sciences 492 or 497 .....	3	
Plant Sciences 331 and Technical Electives for Production Horticulture Track; or Plant Sciences 461 for Science and Biotechnology Track .....	3	
Technical Electives .....	10	
Unrestricted Electives .....	3	
		<b>Total 124</b>

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists. Selection should be made in conference with academic advisor.

Students must meet the General Education requirement for Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.

**Public Horticulture Concentration**

The public horticulture concentration is intended for students interested in professional careers that promote horticulture and emphasize people, their education and their enjoyment of plants. Such careers include director of a botanical garden or park; city or urban horticulturist; extension agent, teacher, educational director, or program coordinator; professional garden writer/editor or publication manager; horticulture therapist; public garden curator; and plant collections manager. Technical electives allow students to concentrate in specialties of their interest while encouraging the development of strong communication skills. Students are encouraged to earn a minor degree in a supportive field such as education, communications or journalism, or earn a Non-Profit Management Certificate.

**Requirements for the Bachelor of Science in Plant Sciences • Plant Sciences Major • Public Horticulture Concentration**

	Hours Credit
<b>Freshman</b>	
Biology 111*, 112* .....	8
Chemistry 100* or 120* .....	4
Computer Science 100* or 102* .....	3
English 101*, 102* .....	6
Environmental and Soil Sciences 210 .....	4
Mathematics 113*, 123*, or 151* .....	3
Plant Sciences 120 .....	2
<b>Sophomore</b>	
<sup>1</sup> Arts and Humanities Elective* .....	6
Communication Studies 240* .....	3
<sup>1</sup> Cultures and Civilizations Elective* .....	6
Plant Sciences 220, 226, 280, 290 .....	11
<sup>1</sup> Social Sciences Elective* .....	3
Technical Electives .....	3
<b>Junior</b>	
Economics 201* .....	4
Plant Sciences 230, 240, 328, 329, 330, 348, 370, 410, 434, and 436 .....	21
Technical Electives .....	6
<b>Junior Year Summer</b>	
Plant Sciences 492 .....	3
<b>Senior</b>	
Agricultural Economics 310 .....	1
Entomology and Plant Pathology 313 or 321 .....	3
Entomology and Plant Pathology 410 .....	3
Plant Sciences 427, 430, 437, 446, and 470 .....	12
Plant Sciences 448 or 494 .....	3
Technical Electives .....	3
Plant Sciences 421 or Unrestricted Electives .....	3
<hr/> Total 124	

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists. Selection should be made in conference with academic advisor.

Students must meet the General Education requirement for Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.

**Turfgrass Science and Management Concentration**

The turfgrass science and management concentration is designed for the student desiring to pursue professions that include growing and managing turfgrasses used for golf courses, parks, athletic fields, sports complexes, and residential and commercial lawns. This concentration also prepares students for graduate studies in turfgrass science. Students are encouraged to earn a minor degree in a supportive field such as agricultural economics or environmental and soil sciences. Careful selection of departmental courses and other electives in consultation with the assigned academic advisor will prepare graduates for the career of their choice.

**Requirements for the Bachelor of Science in Plant Sciences • Plant Sciences Major • Turfgrass Science and Management Concentration**

	<b>Hours Credit</b>
<b>Freshman</b>	
<sup>1</sup> Arts and Humanities Elective* .....	3
Chemistry 100* and 110*, or 120* and 130* .....	8
<sup>1</sup> Cultures and Civilizations Elective* .....	3
English 101*, 102* .....	6
Mathematics 123* and 125*, or 151* and 152* .....	6
Plant Sciences 120 .....	2
<sup>1</sup> Social Sciences Elective* .....	3
<b>Sophomore</b>	
Agriculture and Natural Resources 290 .....	3
Biology 111*, 112* .....	8
Communication Studies 210* or 240* .....	3
Economics 201* .....	4
Environmental and Soil Sciences 210 .....	4
Plant Sciences 240, 241 .....	3
Plant Sciences 220 or 280 .....	3
Unrestricted Electives .....	3
<b>Junior</b>	
Agricultural Economics 212 .....	3
<sup>1</sup> Cultures and Civilizations Elective* .....	3
Plant Sciences 290, 330, 331, 341, 343, 348, 457-458, and 442 .....	16
Plant Sciences 350 or 370 .....	3
Unrestricted Electives .....	3
<b>Junior Year Summer</b>	
Plant Sciences 492 .....	3
<b>Senior</b>	
Agricultural Economics 310 .....	1
<sup>1</sup> Arts and Humanities Elective* .....	3
Biosystems Engineering Technology 452, 462 .....	6
Biochemistry and Cellular and Molecular Biology 321 .....	4
Entomology and Plant Pathology 313 .....	3
Environmental and Soil Sciences 334 .....	3
Plant Sciences 353, 421, or 454 .....	3
Plant Sciences 435, 441, and 470 .....	7
Unrestricted Electives .....	1
<b>Total 124</b>	

\*Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education lists. Selection should be made in conference with academic advisor. Students must meet the University General Education requirement Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.

**REVISE PLANT SCIENCES MINOR**

➤ On page 71 of the 2004-2004 Undergraduate Catalog, revise to

**Minor in Plant Sciences**

	<b>Hours Credit</b>
A minimum of 18 semester hours of upper-division plant sciences courses .....	18
<b>Total 18</b>	

## REVISE ADDITIONAL ELECTIVE LISTS FOR PLANT SCIENCES MAJOR

## DELETE LISTS FOR DROPPED CONCENTRATIONS

ADD LISTS FOR LANDSCAPE DESIGN AND CONSTRUCTION CONCENTRATION; PLANT SCIENCES, BIOTECHNOLOGY AND HORTICULTURE CONCENTRATION; PUBLIC HORTICULTURE CONCENTRATION

➤ On page 71 of the 2004-2005 Undergraduate Catalog

**LANDSCAPE DESIGN AND CONSTRUCTION CONCENTRATION****Technical Electives**

Architecture 111, 180, 211, 232, 421; Art 101, 103, 191, 295; Art Drawing 211, 212; Art Media Arts 231, 331; Art Painting 213, 214, 215, 216; Biochemistry and Cellular and Molecular Biology 306; Biology 250; Biosystems Engineering Technology 202, 212; Ecology and Evolutionary Biology 304, 330, 433; Communication Studies 230, 310; English 360\*; Entomology and Plant Pathology 201, 306, 313, 321, 410; Environmental and Soil Science 324, 334; Forestry 321; Forestry Wildlife and Fisheries 211, 250, 311; Geography 365, 366; Geology 201, 202, 203; Philosophy 243\*, 244, 245\*; Political Science 402, 403, 446; Spanish 211, 212.

**PLANT SCIENCES, BIOTECHNOLOGY AND HORTICULTURE CONCENTRATION****Technical Electives**

Agricultural Economics 212, 330, 342, 350, 412; Accounting 200; Biochemistry and Cellular and Molecular Biology 310, 330, 401, 402; Biology 240; Biochemistry and Cellular and Molecular Biology 404, Biosystems Engineering Technology 326; Business Administration 201; Chemistry 350; Ecology and Evolutionary Biology 304, 410, 414, 433; English 360\*; Entomology and Plant Pathology 451; Environmental and Soil Sciences 355, 442; Finance 301; Management 300; Marketing 300; Microbiology 210.

**PUBLIC HORTICULTURE CONCENTRATION****Technical Electives**

Accounting 415; Art 481; Agriculture and Extension Education 346; Communication Studies 440; Ecology and Evolutionary Biology 309, 330, 433; Educational Administration and Policy Studies 200; Educational Psychology 210; English 360\*; Human Resource Development 440, 562; Philosophy 245\*; Public Relations 270, 470; Recreation and Leisure Studies 201, 430.

*Courses marked with \* meet University General Education Requirements.*

**COLLEGE OF ARCHITECTURE AND DESIGN  
ALL CHANGES EFFECTIVE: FALL 2005**

**I. Course Changes**

**Architecture (133)**

DROP

- 181 Introduction to Graphic Skills (4)**
- 182 Introduction to Basic Design (6)**
- 345 Principles of Environmental Control I (3)**

## II. Program Changes

### INTERIOR DESIGN PROGRAM

#### REVISE REQUIREMENTS FOR INTERIOR DESIGN MAJOR

- On page 77 of the 2004-05 Undergraduate Catalog, REVISE the Interior Design showcase to reflect the University General Education Requirement

To

#### Requirements for the Bachelor of Science in Interior Design

	Hours	Credit
<b>First Year</b>		
Architecture 121, 171, 172.....	9	
Interior Design 141, 171, 172 .....	8	
<sup>1</sup> Mathematics 123* or 125* .....	3	
<sup>2</sup> English 101*, 102* .....	6	
<sup>3</sup> Social Sciences Elective* .....	3	
<sup>4</sup> Natural Sciences Elective (must have a lab)* .....	4	
<b>Second Year</b>		
Interior Design 200, 221, 261, 271, 272 .....	19	
Architecture 231.....	3	
Art History 172*, 173* .....	6	
<sup>4</sup> Physics 161* .....	3	
Communicating through Writing Elective* .....	3	
<b>Third Year</b>		
Interior Design 311, 312, 331, 371, 372, 360, 460* .....	27	
Materials Science and Engineering 220 .....	3	
<sup>5</sup> Communicating Orally Elective* .....	3	
<b>Summer (ID 420)</b> .....	3	
<b>Fourth Year</b>		
Interior Design 471, 472, 480 .....	16	
<sup>6</sup> Elective (Art Studio).....	3	
<sup>7</sup> Elective (Professional).....	3	
<sup>8</sup> Cultures and Civilizations Electives* .....	6	
<sup>3</sup> Social Sciences Elective* .....	3	
Elective .....	3	
<b>Total</b>	<b>137</b>	

\*Meets University General Education Requirement.

<sup>1</sup> Select Mathematics 123 or 125 (required) and Interior Design 460 (required).

<sup>2</sup> Select 101, 102 (required) and one other writing-intensive course (WC).

<sup>3</sup> Select 6 hours from Anthropology 130; Psychology 110; Sociology 110, 120; Economics 201 (if you plan to take Business as a minor); Women's Studies 230; or other approved course (SS) designated.

<sup>4</sup> Select Physics 161 (required) and one other designated Natural Science (NS) such as Astronomy 161, Biology 101, Biology 111, Chemistry 120, Geology 101.

<sup>5</sup> Select 3 hours from Communication Studies 210 or 240.

<sup>6</sup> Select any Art, Art Ceramics, Art Design/Graphic, Art Drawing, Art Media Arts, Art Painting, Art Printmaking, or Art Sculpture.

<sup>7</sup> Select from interior design or approved architecture courses not required for graduation.

<sup>8</sup>Select 6 hours from Classics 201; Asian Studies 101, 102; Geography 101, 102; any designated history course (CC); Medieval Studies 201; Religious Studies 101, 102; or two foreign language (CC) designated.

**COLLEGE OF ARTS AND SCIENCES****ALL CHANGES EFFECTIVE: FALL 2005****Part I: Course Changes****DEPARTMENT OF ANTHROPOLOGY****Anthropology (122)**

ADD SECONDARY CROSS-LISTED COURSE

**304 Genetics and Society (3)** (*See Biochemistry and Cellular and Molecular Biology 306.*)

DROP SECONDARY CROSS-LISTED COURSE  
(BOTANY 306, THE PRIMARY COURSE, IS BEING DROPPED)

**306 Genetics and Society (3)** (*See Botany 306.*)

REVISE TITLES OF SECONDARY CROSS-LISTED COURSES IN CATALOG  
(TITLES OF PRIMARY COURSES ARE BEING REVISED)

**481 Museum Studies I: Museums, Purpose and Function (3)** (*See Art 481.*)

**482 Museum Studies II: Exhibition Planning and Installation (3)** (*See Art 482.*)

**484 Museum Studies III: Field Projects (1-12)** (*See Art 484.*)

**SCHOOL OF ART****Art (140)**

ADD

**150 The Idea of Graphic Design (3)** An overview of design as visual message-making and as an act of cultural interpretation. Contemporary and historic design and its forms are examined, along with an introduction to design and creative concepts, and the role of criticism and theory. Student assessment will come from exams, short writings and visual laboratory projects. Open to non-majors.

REVISE CREDIT HOURS

**101 Studio Fundamentals: Drawing and Design (3)**

**103 Studio Fundamentals: Three Dimensional Design (3)**

REVISE TITLE OF PRIMARY CROSS-LISTED COURSES

**481 Museum Studies I: Museums, Purpose and Function (3)** (*Same as Anthropology 481.*)

**482 Museum Studies II: Exhibition, Planning and Installation (3)** (*Same as Anthropology 482.*)

**484 Museum Studies III: Field Projects (1-12)** (*Same as Anthropology 484.*)

**Art Ceramics (135)**

REVISE CREDIT HOURS

**321 Ceramics: Handbuilding II (4)**

**322 Ceramics: Throwing II (4)**

**421 Ceramics: Advanced Handbuilding (6)**

**422 Ceramics: Advanced Throwing (6)**



**Art Design/Graphic (136)**

ADD

**450 Design in Culture (3)** A consideration of design as an act of cultural interpretation. Historic and contemporary design and design issues are examined through presentations, discussions, readings, and writings. Required of all upper-division graphic design majors on the BFA track. Open to other students by consent of instructor. Student assessment will come from writing, projects, presentations and contributions to class discussion.

DROP

**151 Graphic Design History (3)**

REVISE PREREQUISITE

**251 Beginning Graphic Design I (3)** Prereq: Art 101,103, 150; Art History 162 or 172 or 173 or 183.

**350 Graphic Design Portfolio Review (0)** Prereq/Coreq: Art History 172 and 173 with a grade of C or better; Art 150. Coreq: Art Design/Graphic 252.

**Art History (139)**

ADD

**464 Oceanic Art (3)** Concentrated study of selected sculpture, textiles, architecture and other traditional art forms of Polynesia, Micronesia and Melanesia. Objects are discussed on the basis of style, style relationship, iconography and the uses to which they were put in their traditional religious, political and social contexts. Writing-emphasis course.

[Add to Upper Level Distribution, Foreign Studies, Asia]

DROP

**161 Oceanic Art (3)**

REVISE PRIMARY COURSES TO CHANGE COURSE NUMBERS OF SECONDARY (MEDIEVAL STUDIES) COURSES

**431 Medieval Art of the West, 800-1400 (3)** (*Same as Judaic Studies 431; Medieval Studies 431.*)

**441 Northern European Painting, 1350-1600 (3)** (*Same as Medieval Studies 441.*)

**451 The Art of Italy, 1250-1450 (3)** (*Same as Medieval Studies 451.*)

**DEPARTMENT OF AUDIOLOGY AND SPEECH PATHOLOGY****Audiology and Speech Pathology (160)**

REVISE DESCRIPTION

**461 Introduction to Language Pathology in Children (3)** Etiology, diagnosis, and treatment of language impairments in children. Prereq: 320 or consent of instructor.

REVISE TITLE

**494 Introduction to Aural Habilitation/Rehabilitation of the Hearing-Impaired (3)**

**DEPARTMENT OF BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY****Biochemistry and Cellular and Molecular Biology (188)**

ADD PRIMARY COURSE AND CROSS-LIST

**306 Genetics and Society (3)** Introduction to genetics, anthropology and evolution with emphasis on their implications for human society. (*Same as Anthropology 304.*)

[Add to Divisional Distribution List, Natural Science, List B]

ADD

**321 Introductory Plant Physiology (4)** Cell and organismal physiology of plants; metabolic processes, water relations, mineral nutrition, morphogenesis. Effects of age, light, natural rhythms, temperature and other environmental factors on plant growth. Prereq: One year general chemistry and one year biological science.

**404 Plant Molecular Biology (4)** Introduction to current research approaches and methodologies in plant developmental biology and molecular genetics. Laboratory and lecture. Prereq: Biology 140 and 240 or equivalent.

**See Reference Chart under Botany (198) Academic Discipline**

DROP

**410 Cellular and Comparative Biochemistry (4)****DIVISION OF BIOLOGY****Biology (190)**

ADD

**111-112 General Botany (4,4)** 111 – Introduction to taxonomy through tree identification: basic organization and function of cells, respiration, photosynthesis, genetics (including meiosis, mitosis, Mendelian inheritance); survey of plant kingdom (bacteria, algae, fungi, mosses, ferns, conifers, and flowering plants). 112 – Plant growth, anatomy, growth regulation; uptake and transport; origin of life and mechanisms of evolution; ecology, importance to humans and environmental concerns. Students receiving credit for 111-112 may not receive credit for Biology 101-102. **(NS)**

[Add to Divisional Distribution List, Natural Science, List A]

**See Reference Chart under Botany (198) Academic Discipline**

**157 Honors Experimental Biology (4)** Integrated lecture/laboratory practicum designed as an inquiry-based course with hands-on experimentation to explore the nature of scientific research and unifying concepts and principles of Biology. Properties of life and common themes in living systems using plant and animal subjects for experimentation. Prereq: Permission of Instructor. Credit not available for students with credit for Biology 101 and 102. **(NS) (OC)**

[Add to Divisional Distribution, Natural Science, List B]

REVISE PREREQUISITE

**140 Organization and Function of the Cell (4)** Prereq: 111-112 or 130, Chemistry 120. Coreq: Chemistry 130.

**240 General Genetics (4)** Prereq: 111-112 or 130-140; Chemistry 120-130.

**250 General Ecology (4)** Prereq: 111-112 or 130-140; Chemistry 120-130

**DEPARTMENT OF BOTANY**

DROP ACADEMIC DISCIPLINE AND ALL BOTANY COURSES

**Botany (198)****110-120 General Botany (4,4) (NS)**

General Education Course (NS)

**305 Socio-Economic Impact of Plants (3)****306 Genetics and Society (3)**

Primary course. Secondary course: Anthropology 306

309 Biology of Human Affairs (3)	
310 Plant Morphology (4)	
313 Introductory Plant Pathology (3)	Secondary course. Primary course: Entomology and Plant Pathology 313
321 Introductory Plant Physiology (4)	
330 Field Botany (3)	
371 Undergraduate Seminar (1)	
400 Tutorial in Botany (1-2)	
401 Field Studies in Botany (1-3)	
404 Plant Molecular Biology (4)	
412 Plant Anatomy (3)	
419 Science as Method (3)	Secondary course. Primary course: EEB 419
431 Plant Ecology (4)	Primary course. Secondary course: EEB 431
441-442 Undergraduate Research Participation (1-2, 1-2)	
451 Plant Tissue Culture (3)	Secondary course. Primary course: Entomology and Plant Pathology 451
471 Senior Seminar (3)	
499 Evolutionary Ecology	Primary course. Secondary course: EEB 499

Reference Chart for Curriculum System Entry

Current Course Botany (198)	Fall 2005 (190) Biology (188) BCMB (278) EEB
110-120 # (NS)	Biology 111-112# (NS)
306* Primary course (Same as Anthropology 306)	BCMB 306* (Same as Anthropology 304)
321	BCMB 321
404	BCMB 404
305	EEB 304
309	EEB 309
310	EEB 410
330	EEB 330
412	EEB 414
431* Primary course (Same as Ecology & Evolutionary Biology 431)	EEB 433
499* Primary course (Same as Ecology & Evolutionary Biology 499)	EEB 495
REMAINING COURSES	
Current Course Botany (198)	Fall 2005
371	----- (course dropped)
313 * Secondary course (Same as Entomology and Plant Pathology 313.)	Entomology and Plant Pathology 313 (former primary) remains.
400	----- (course dropped)
401	----- (course dropped)
419* Secondary Course (Same as Ecology and Evolutionary Biology 419)	EEB 419 (former primary) remains. (Secondary course remains: Philosophy 419.)
441	----- (course dropped)
442	----- (course dropped)
451* Secondary course (Same as Entomology and Plant Pathology 451)	Entomology and Plant Pathology 451 (former primary) remains. (Secondary course remains: Plant Sciences 451.)
471	----- (course dropped)

\*Cross-listed courses  
#General Education Course

## DEPARTMENT OF CLASSICS

### Classics (257)

ADD SECONDARY CROSS-LISTED COURSE

303 History of the Roman Republic (3) (See History 303.)

304 History of the Roman Empire (3) (See as History 304.)

305 History of the Late Roman Empire (3) (See History 305.)

## DROP SECONDARY CROSS-LISTED COURSE

**311 The Ancient World: Rome (3)** (See *History 311.*)

REVISE CREDIT HOURS

**111-112 Beginning Latin (4,4)****150 Latin Transition (4)****121-122 Beginning Greek (4,4)**

REVISE DESCRIPTION

**383 Women in the Greek and Roman World (3)** The condition of women in the apparently male-dominated world of Classical Greece and Classical Rome. Evidence from literature, vase paintings, and other arts is examined from the age of Homer to the second century AD with emphasis on Athens in the fifth century BC and Roman Italy in the first and second centuries AD. Writing-emphasis course. (*Same as Women's Studies 383.*)

**DEPARTMENT OF COMPUTER SCIENCE****Computer Science (266)**

ADD

**350 Introduction to Technical Computing (3)** For students in the sciences, engineering, or mathematics. Basic ideas of algorithm design and data structures using a high-level technical language in an interactive environment. Topics may include data analysis, plotting and visualization, and numerical computation. 2-hour lab required. Course does not fulfill any requirements for the computer science undergraduate major. Prereq: Mathematics 142.

**DEPARTMENT OF EARTH AND PLANETARY SCIENCES****Geology (424)**

ADD

**205 Age of the Dinosaurs (3)** Survey of the major groups of dinosaurs: skeletal structure, ecology, environments, evolutionary history, and extinction. May not be applied toward the geology major.

REVISE DESCRIPTION

**101 The Dynamic Earth (4)** Physical processes within and upon the Earth's surface, including the formation of rocks, plate tectonics and earthquakes, and landscapes. 3 lecture hours and one 2-hour lab or field period. **(NS)**

**102 Earth, Life and Time (4)** Fossils, evolution and ancient environments, plus a review of 4.5 billion years of earth history. 3 lecture hours and one 2-hour lab or field period. **(NS)**

REVISE DESCRIPTION AND REMOVE PREREQUISITE

**103 The Earth's Environments (4)** Contemporary problems and solutions related to natural and human disturbance of the environment; topics include: natural hazards, global climate change, pollution, resource depletion. 3 lecture hours and one 2-hour lab or field period. **(NS)**

[Divisional Distribution List, Natural Science, List A needs to change—any two 101, 102, 103 can be chosen]

**DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY****Ecology and Evolutionary Biology (278)**

ADD

**304 Socio-Economic Impact of Plants (3)** Significance of plants in origin and development of human cultures, evolution of cultivated plants, and role of plants in present civilization. Occasional field trips. May not be applied to the Ecology and Evolutionary Biology concentration.

**309 Biology of Human Affairs (3)** Current topics in biology and their public relevance, especially the interaction between biology and government. Issues include conservation, health, agriculture, national parks, population, etc.

[Add to Divisional Distribution List, Natural Science, List B]

**330 Field Botany (3)** Principles of taxonomy, basic ecological concepts and identification, recognition, collection and preservation of local, native and naturalized plants. Prereq: 8 hours in biological sciences.

[Add to Divisional Distribution List, Natural Science, List B]

**410 Plant Evolutionary Morphology (4)** Morphology, development, natural history, and evolution of fungi, cyanobacteria, non-vascular plants (algae and bryophytes), and vascular plants (ferns, fern allies, gymnosperms, and flowering plants). Prereq: Biology 102 or 111 or 130 or equivalent.

[Add to Divisional Distribution List, Natural Science, List B]

**414 Plant Anatomy (3)** Cells, tissues and organs, their development in vegetative and reproductive structures of vascular plants - emphasis on seed plants. Prereq: Biology 111-112 or Biology 130-140 or equivalent.

**433 Plant Ecology (3)** Interactions between individuals, species, communities and their environments. Circulation of energy and matter in ecosystems. Weekly field trips or laboratory periods, and at least two weekend field trips. Prereq: 330 or equivalent.

**465 Evolutionary and Functional Vertebrate Morphology (4)** A detailed study of the structure and function of the vertebrates. Analysis of evolutionary patterns of vertebrates using the comparative method and data from anatomy, developmental biology and functional morphology within a phylogenetic context. Laboratory requires intensive dissection to learn vertebrate anatomy, evolutionary trends and specializations. 2 hours and 2 labs. Prereq: Biology 250 or consent of instructor, Physics 221 recommended.

**495 Evolutionary Ecology (3)** Basic concepts in evolutionary and ecological genetics. Biogeography, climate, population genetics, evolution and natural selection, population growth and regulation, competition, niche, experimental ecology, predation, phylogenetics in ecology, biodiversity and conservation. Prereq: Biology 130 and 250. Students may not receive credit for both 495 and 595.

**See Reference Chart under Botany (198) Academic Discipline**

DROP

**350 Comparative Vertebrate Biology (4)**

DROP SECONDARY COURSES

**431 Plant Ecology (3)** (See Botany 431.)

**499 Evolutionary Ecology (3)** (See Botany 499.)

REVISE CROSS-LISTING OF PRIMARY COURSE TO REMOVE A SECONDARY CROSS-LISTING

**419 Science as Method (3)** (Same as Philosophy 419.)

## DEPARTMENT OF ENGLISH

**English (339)**

DROP PRIMARY CROSS-LISTED COURSE

**475 Teaching English as a Second or Foreign Language II (3)** (Same as Linguistics 475.)

REVISE PRIMARY COURSE TO DROP SECONDARY COURSE

**471 Sociolinguistics (3)** (Same as Linguistics 471.)

## REVISE DESCRIPTION

**118 Honors English Composition (3)** For students whose ACT English and Composite scores are at or above 28 (or SAT verbal/composite scores at or above 650/1250). Grading scale and workload are same as in regular sequence though course proceeds at an accelerated pace. Practice in argumentation, critical reading, literary interpretation, and research methods. May include the study of a long work of literature in addition to readings in nonfiction, short fiction, poetry, and drama. Students receiving a grade below B in 118 will complete a year's work in English Composition by taking 102. Students receiving a grade of A or B will complete their freshman English requirements by choosing 102, a sophomore literature course in the English Department, or 355. (University Honors students receiving a grade of A or B may complete their freshman English requirements by choosing one of the University Honors Interdisciplinary Seminars: University Honors 257, 267, or 277. These seminars are limited to University Honors students only.) A, B, C, No Credit grading.

**331 Race and Ethnicity in American Literature (3)** Examines the role of ethnic and racial identity in the literature of the United States. Writing-emphasis course. (*Same as African and African-American Studies 331.*)

**351 The Short Story (3)** American, British, International. Content varies.

**422 Women Writers in Britain (3)** Emphasis on the literary consciousness and works of women writers in Britain. Course content will vary. Authors covered may include Marie de France, Margery Kempe, Aemilia Lanyer, Elizabeth Cary, Aphra Behn, Frances Burney, Mary Wollstonecraft, Mary Shelley, George Eliot, Virginia Woolf, and Doris Lessing. Writing-emphasis course. May be repeated. Maximum 6 hours. (*Same as Women's Studies 422.*)

## DEPARTMENT OF GEOGRAPHY

## Geography (415)

ADD

**414 Spatial Databases and Data Management (3)** Types, sources, acquisition, and documentation of spatial data. Spatial database management methods and strategies for data sharing. 2 hours lecture and 2 hours lab. Prereq: Geography 411 or consent of instructor.

ADD PRIMARY COURSE AND CROSS LIST

**442 Urban Social Geography (3)** Geographical study of urban culture; social production of neighborhoods; social and behavioral aspects of territoriality, residential mobility, segregation, and the rise of post-industrial and global cities. (*Same as Urban Studies 442.*)

ADD

**454 Terrain Analysis (3)** Analysis of landscape history from digital elevation datasets and traditional topographic maps. Basement materials and structures; and erosional and depositional evidence, including fluvial, glacial, aeolian, and shoreline features, of past climatic and biological regimes. Prereq: 131-132 or Geology 101-102 or Geology 107-108.

DROP PRIMARY CROSS-LISTED COURSES

**323 Behavioral Geography (3)** (*Same as Urban Studies 323.*)

**372 Geography of Middle America (3)** (*Same as Latin American Studies 372.*)

[Drop from Upper Level Distribution, Foreign Studies, Latin America]

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

**411 Introduction to Geographic Information Science (3)** Concepts and methods of spatial analysis and their application using geographic information systems software and techniques. Emphasizes both theoretical and applied aspects of GIS. 2 hours lecture and 2 hours lab. Prereq: 310 or consent of instructor.

REVISE DESCRIPTION AND CREDIT HOURS

**413 Remote Sensing: Types and Applications (4)** Principles and uses of remote sensing imagery, digital data, and spectral data: geographic interpretation and mapping techniques. 3 hours lecture, 2 hours lab. Prereq: 310 or consent of instructor.

**DEPARTMENT OF HISTORY****History (462)**

ADD PRIMARY COURSE AND CROSS-LIST

**303 History of the Roman Republic (3)** Roman history, eighth century BC-27 BC; origins of Rome, development of the Republican constitution, growth of Roman imperialism, Romans and Greeks, collapse of the Republic, rise of Octavian. Writing-emphasis course. (*Same as Classics 303.*)

**304 History of the Roman Empire (3)** Roman history, 27 BC-AD 211; Age of Augustus, expansion of Roman citizenship; Flavian and Antonine dynasties; barbarians and Romans; the Second Sophistic; the Severans. Writing-emphasis course. (*Same as Classics 304.*)

**305 History of the Late Roman Empire (3)** AD 197-491. The Severan empire and the third-century crisis; Diocletian and Constantine; the Christian empire; rise of bureaucratic government; the development of barbarian kingdoms; the fall of the western empire; from Roman to Byzantine in the east. Writing-emphasis course. (*Same as Classics 305.*)

DROP PRIMARY CROSS-LISTED COURSE

**311 The Ancient World: Rome (3)** (*Same as Classics 311.*)

DROP

**346 The Environment in U.S. History (3)**  
**455 Environmental History of Urban America (3)**

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**321 New Testament and Early Christian Origins (3)** (*See Religious Studies 321.*)

**322 Christian Thought in Late Antiquity (3)** (*See Religious Studies 322.*)

REVISE TITLE AND DESCRIPTION OF PRIMARY CROSS-LISTED COURSE

**445 The African-American Experience from the Colonial Period to the Civil War (3)** Africans in American society from the colonial period to the Civil War. Impact of the African slave trade on the cultural, economic, and social development of the colonies; slave culture, adaptation, and resistance; freed black people; and the formation of an African-American identity. Writing-emphasis course. (*Same as African and African-American Studies 445.*)

[Add to Upper Level Distribution, United States Studies]

REVISE TITLE, DESCRIPTION, ADD CROSS-LISTING

**446 The African-American Experience from the Civil War to the Present (3)** Topics in 19th and 20th century African-American history. Writing-emphasis course. (*Same as African and African-American Studies 446.*)

REVISE DESCRIPTION

**451 United States Military History, 1754 to the Present (3)** The nation's broad strategic aims and means used to attain them, shifting strategy, tactics and weaponry involved in wars, and relationship between American society and its armed forces. Writing-emphasis course. (*Same as Military Science and Leadership 430.*)

REVISE DESCRIPTION

**490 Internship in the Center for the Study of War and Society (3)** A structured field work experience in public history at a research center documenting modern U.S. military history, including special projects such as grant writing, interviewing, and archival processing. Writing-emphasis course. Prerequisite: Consent of the Director of the Center for the Study of War and Society. May be repeated. Maximum 6 hours.

**INTERDISCIPLINARY PROGRAMS****African and African-American Studies (022)**

ADD SECONDARY CROSS-LISTED COURSE

**446 The African-American Experience from the Civil War to the Present (3)** (*See as History 446.*)

[Add to Upper Level Distribution, United States Studies]

DROP SECONDARY CROSS-LISTED COURSE

**350 History of Jazz (3)** (*Same as Music History 350.*)

REVISE DESCRIPTION

**235 Introduction to African Studies (3)** Multidisciplinary approach to the study of African traditions, cultures, religions, political economies, precolonial democracies, and states from the first through the sixteenth century. Writing-emphasis course. **(CC)**

**236 Introduction to African Studies (3)** The multidisciplinary study of Africa and its incorporation into the world economy between the sixteenth and the twentieth century. Includes the rise of nationalism, post-colonial dependency, contemporary problems, and current liberation struggles in various areas of the continent. Writing-emphasis course. **(CC)**

REVISE CROSS-LISTING OF SECONDARY COURSE TO REFLECT CHANGE OF ACADEMIC DISCIPLINE OF PRIMARY COURSE

**310 Introduction to African-American Music (3)** (*See Musicology 310.*)

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**445 The African-American Experience from the Colonial Period to the Civil War (3)** (*See History 445.*)

[Add to Upper Level Distribution, United States Studies]

### **Judaic Studies (595)**

ADD SECONDARY COURSE TO UPPER LEVEL DISTRIBUTION. (PRIMARY IS ART HISTORY 431. ANOTHER SECONDARY IS MEDIEVAL STUDIES 431, FORMERLY MEDIEVAL STUDIES 381.)

**431 Medieval Art of the West, 800-1400 (3)** (*See Art History 431.*)

[Add to Upper Level Distribution, Foreign Studies, Europe]

### **Latin American Studies (600)**

DROP SECONDARY CROSS-LISTED COURSE

**372 Geography of Middle America (3)** (*See Geography 372.*)

### **Legal Studies (617)**

DROP SECONDARY CROSS-LISTED COURSE

**344 Professional Responsibility (3)** (*See Philosophy 344.*) **(OC)**

ADD SECONDARY CROSS-LISTED COURSE

**244 Professional Responsibility (3)** (*See Philosophy 244.*) **(AH) (OC)**

### **Linguistics (623)**

DROP SECONDARY CROSS-LISTED COURSE

**475 Teaching English as a Second or Foreign Language II (3)** (*See English 475.*)

### **Medieval Studies (674)**

ADD SECONDARY CROSS-LISTED COURSES

**431 Medieval Art of the West, 800-1400 (3)** (*See Art History 431.*)

[Add to Upper Level Distribution, Foreign Studies, Europe]



**441 Northern European Painting, 1350-1600 (3)** *(See Art History 441.)*

[Add to Upper Level Distribution, Foreign Studies, Europe]

**451 The Art of Italy, 1250-1450 (3)** *(See Art History 451.)*

[Add to Upper Level Distribution, Foreign Studies, Europe]

## DROP SECONDARY CROSS-LISTED COURSES

**372 Northern European Painting, 1350-1600 (3)** *(Same as Art History 441.)*

[Drop from Upper Level Distribution, Foreign Studies, Europe]

**381 Medieval Art of the West, 800-1400 (3)** *(See Art History 431.)***382 The Art of Italy, 1250-1450 (3)** *(Same as Art History 451.)*

[Drop from Upper Level Distribution, Foreign Studies, Europe]

**Urban Studies (985)**

## ADD AND CROSS-LIST SECONDARY COURSES

**411 The City in the United States (3)** *(See Political Science 402.)***412 Survey of Planning (3)** *(See Political Science 403.)***442 Urban Social Geography (3)** *(See Geography 442.)***446 Housing (3)** *(See Political Science 446.)*

## DROP SECONDARY CROSS-LISTED COURSES

**280 Introduction to Real Estate (3)** *(See Finance 280.)***323 Behavioral Geography (3)** *(See Geography 323.)***401 The City in the United States (3)** *(See Planning 401.)***402 Survey of Planning (3)** *(See Planning 402.)***Women's Studies (994)**

## REVISE SECONDARY CROSS-LISTED COURSE TO REFLECT NEW ACADEMIC DISCIPLINE OF PRIMARY COURSE

**330 Women in Music (3)** *(See Musicology 330.)* **(WC)**

## REVISE DESCRIPTION

**340 Women, Politics, and the Law (3)** An examination of recent changes in the laws affecting women and a study of the role of women in contemporary American politics. Writing-emphasis course. *(Same as Legal Studies 340.)*

**360 Women in Cross-Cultural Perspective (3)** A study of the changing role of women in various contemporary cultures: industrial democracies, developing nations, communist countries. A team-taught course with guest lectures and slide presentations. Writing-emphasis course.

**469 Sexuality and Cinema (3)** Explores issues surrounding sexuality, gender and cinema from points of view of feminist film criticism. Writing-emphasis course. *(Same as Cinema Studies 469.)*

[Add to Upper Level Distribution, United States Studies]

**DEPARTMENT OF MATHEMATICS****Mathematics (641)**

ADD

**113 Mathematical Reasoning (3)** Classical and modern topics in number theory, logic, geometry, and probability with emphasis on problem solving. Consumer mathematics and other real-world applications. **(QR)**

[Add to Basic Skills Requirements, Mathematics and Quantitative Reasoning]

**117 Honors: Mathematical Reasoning (3)** Topics will be selected from: number theory, logic, geometry, elementary topology, fractals, or probability with an emphasis on problem solving. Consumer mathematics, fair division, voting theory or other real-world applications may be included. Prereq: ACT composite score of at least 31 (or 1380 SAT) or consent of instructor. **(QR)**

[Add to Basic Skills Requirements, Mathematics and Quantitative Reasoning]

DROP

**110 Algebraic Reasoning (3) (QR)****Reference Chart for Curriculum System Entry**

<b>Current Course</b>	<b>Fall 2005</b>
Mathematics 110 <b>(QR)</b>	Mathematics 113 <b>(QR)</b>

REVISE DESCRIPTION

**100 Intermediate Algebra (3)** First degree equations and inequalities, polynomials, rational expressions, exponents, graphing, second degree equations and inequalities, systems of equations, introduction to exponential and logarithmic functions. The course is designed to prepare students for enrollment in Mathematics 119, 130, 201, and 202. Course does not count toward the total number of hours required for graduation, nor does it fulfill any mathematics requirement. A, B, C, No Credit grading.

**109 Algebra Workshop (1)** Self-paced tutorial center for students taking 119, 125, 130, or 141 who need additional help (as determined by placement exams, assessment exams, or classroom performance). Individual and computerized instruction on various pertinent algebra and trigonometry skills. Student must be concurrently enrolled in 119, 125, 130, or 141. May be repeated. Maximum 3 hours. Satisfactory/No Credit grading only.

DELETE PREREQUISITE

**115 Statistical Reasoning (3)**

REVISE PREREQUISITE

**119 College Algebra (3)** Prereq: Satisfactory placement test scores or 100.

**123 Finite Mathematics (3)** Prereq: Satisfactory placement score or 119 or 130.

**125 Basic Calculus (3)** Prereq: Satisfactory placement test score or 119 or 130.

DELETE PREREQUISITE; ADD COREQUISITE

**130 Precalculus I (4)** Coreq: 109 for students who did not study trigonometry in high school or college.

REVISE PREREQUISITE

**141-142 Calculus I, II (4,4)** Prereq: Satisfactory placement test scores or 130.

REVISE DESCRIPTION

**Math 147-148 Honors Calculus I, II (4, 4)** Honors version of 141-42 for well-prepared students. Students having 32 Math ACT, 700 Quantitative SAT scores, or permission from the instructor may enroll in Math 147. Students with the above scores and credit for Math 141, an AP Calculus AB score of 5, or permission of the instructor, may enroll in Math 148. Credit will not be given for both 147 and 141 or 152. **(QR)**

**DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES****Asian Languages (144)**

## REVISE DESCRIPTION

**451 Readings in Pre-Modern Japanese Literature (3)** Writing-emphasis course. Prereq: Mastery of intermediate-level Japanese or consent of instructor. (*Same as Japanese 451.*)

**452 Readings in Modern Japanese Literature (3)** Writing-emphasis course. Prereq: Mastery of intermediate-level Japanese or consent of instructor. (*Same as Japanese 452.*)

**French (405)**

## REVISE PREREQUISITE

**334 Intermediate Conversation (3)** Prereq: 333 or permission of instructor.

## REVISE DESCRIPTION AND PREREQUISITE

**430 Theatrical French (4)** Comprehensive introduction to dramatic texts, performance, and theatrical production in French. Students collaborate in the creative staging of a French play and they actively participate in its public performance. Writing-emphasis course. Prereq: 351 or 352. May apply toward major as a literature course.

**German (433)**

## REVISE DESCRIPTION

**350 German-Jewish Topics in Literature and Culture (3)** Selected themes, issues, figures, movements, and problems in the German-Jewish relationship as reflected in literature and culture from the 1750s to the present. Variable content. Available for both majors and non-majors. Writing-emphasis course. May be repeated with the approval of the department. Maximum 6 hours. (*Same as Judaic Studies 350.*)

**Italian (584)**

## REVISE DESCRIPTION

**401 Dante and Medieval Culture (3)** Introduction to the significance of this great Italian writer. Writing-emphasis course. Prereq: 212 or consent of instructor. (*Same as Medieval Studies 401.*)

**402 Petrarch and Boccaccio (3)** Writing-emphasis course. Prereq: 212 or consent of instructor. (*Same as Medieval Studies 402.*)

**414 Italian Cultural Studies (3)** This course will examine Italian culture as a set of practices characteristic of Italian society, from its mode of material production to its eating habits, dress codes, celebrations, and rituals. The objective of the course is to achieve a greater understanding of contemporary Italian culture. Writing-emphasis course.

**421 Topics in Italian Literature and Cinema (3)** Examination of Italian literature and cinema from 1930 to the present focusing on literary works translated into English and adapted into film. Objectives of the course are to investigate the relationship between literature and cinema and to achieve a greater understanding of Italian culture since 1930. Films will be shown in Italian with English subtitles. Writing-emphasis course. May be repeated. Maximum 6 hours. (*Same as Cinema Studies 421.*)

**Russian (886)**

## DROP

**301-302 Introduction to Russian Literature (3,3)**

**Spanish (924)**

## REVISE PREREQUISITE

**430 Topics in Hispanic Linguistics (3)** Prereq: 323. (*Same as Linguistics 431.*)

**SCHOOL OF MUSIC****Music History (709)**

DROP THE MUSIC HISTORY ACADEMIC DISCIPLINE AND ALL COURSES

ADD NEW DISCIPLINE (MUSICOLOGY) AND COURSES

**Musicology (706)**

ADD

**110 Introduction to Music in Western Culture (3)** The study of style periods of Western European art music and related issues of cultural and social history. Develops listening skills and ability to respond to music articulately. Writing-emphasis course. Students who receive a grade of C or better in Musicology 200 may not receive credit for Musicology 110. **(AH)**

**115 Music in the United States (3)** Explores musical traditions of the United States. Writing-emphasis course. For non-music majors. **(AH)**

**120 History of Rock (3)** Study and appreciation of rock music, its origins in blues and rock and roll, its development and cultural dimensions to the present. Writing-emphasis course. **(AH)**

**125 Jazz in American Culture (3)** The historical study of jazz as part of American culture, including its styles, key performers, and musical practices. Writing-emphasis course. For non-music majors. **(AH)**

**200 Introduction to Music Literature (3)** Basic forms of music and accepted masterworks through chronological approach. For music majors and minors only.

**210 History of Music I (3)** Historical study of musical styles, practices, theories, and contexts of Western European art music to 1750 through activities that include analytical listening, source readings and music score study. Develops skills in independent research, critical thinking, and expository writing. Writing-emphasis course. Prereq: 110 or 200, or consent of instructor. **(AH)**

**220 History of Music II (3)** Historical study of musical styles, practices, theories, and contexts of European art music from 1750 to present through activities that include analytical listening, source readings and music score study. Develops skills in independent research, critical thinking, and expository writing. Writing-emphasis course. Prereq: 210. **(AH) (WC)**

**290 Introduction to World Musics (3)** Survey of music of representative cultures from Africa, Asia, Oceania, and the Americas with a focus on music as sound and as part of the human condition. Also includes an emphasis on applying basic music terminology to developing listening skills. **(AH)**

ADD PRIMARY COURSE AND CROSS-LIST

**310 Introduction to African-American Music (3)** History of African music, blues, gospel music, and jazz with emphasis on Black artists and their contributions. *(Same as African and African-American Studies 310.)*

**330 Women in Music (3)** History of women in music from the Middle Ages to present as composers, performers, educators, and patrons. *(Same as Women's Studies 330.) (WC)*

ADD

**340-341 Contemporary Trends in American Church Music I, II (2,2)** Survey of sacred music in popular contemporary style, emphasizing analysis and evaluative criteria. Must be taken in sequence. 340 includes theory and keyboard harmony appropriate to the style. 341 includes composition and arranging within the style. Prereq: Music Theory 210-220.

**350 History of Jazz (3)** Origin, development, and styles of jazz music and its exponents. Cultivation of special listening techniques. Writing-emphasis course. Prereq: Consent of instructor.

**380 Music in World Cultures (3)** Examines music from an ethnomusicological perspective focusing on musical performance and the interrelationships of music, culture, and daily life. The course surveys music from a variety of cultures through a series of case studies. Prereq: 210-220, or permission of instructor. **(WC)**

**400 Music History Survey (3)** History of music with emphasis on genres, style changes, and cultural forces. Western European tradition from 400 to 1900. Recommended as a review course for graduate students. Prereq: Consent of instructor.

**410 Music History Genre (3)** Topics vary. May be repeated for credit. Maximum 6 hours.

**420 History of Opera (3)** Dramatic, vocal, and orchestral elements in opera of Italian, French, and German schools. 1600-present.

**430 Symphonic Literature (3)** Survey of literature for orchestra from Baroque to the present, with emphasis on the evolution of the symphony. (WC)

**450 Composer Seminar (3)** Life and works of a single composer. Subjects vary.

**460 Music Aesthetics (3)** Nature of music and musical experience, sense perception and emotions, music, and role of artist in society. Aesthetic viewpoint of individuals and historical eras through selected writings. Writing-emphasis course.

**480 Music in Christian Worship (3)** Hymnody, liturgies, and liturgical music.

**493 Independent Study (1-15)** Prereq: Consent of department head. May be repeated. Maximum 15 hours.

Reference Chart for Curriculum System Entry

Current Courses Music History (709)	Fall 2005 (706) Musicology
110 (AH)#	110 (AH)#
115 (AH)#	115 (AH)#
120 (AH)#	120 (AH)#
125 (AH)#	125 (AH)#
200	200
210 (WC)#	210 (AH)#
220 (WC)#	220 (AH) (WC)#
290 (AH)#	290 (AH)#
310* Primary course. (Same as African and African-American Studies 310)	310* Primary course. (Same as African and African-American Studies 310)
330* Primary course. (Same as Women's Studies 330) (WC)#	330* Primary course. (Same as Women's Studies 330) (WC)#
340-341	340-341
350* Primary course. (Same as African and African-American Studies 350.)	350 (not cross-listed)
380 (WC)#	380 (WC)#
400	400
410	410
420	420
430	430 (WC)#
450	450
460	460
480	480
493	493

\*Cross-listed Primary Courses  
#General Education course

### Music Keyboard (712)

ADD

**410 Organ Practicum (1)** Improvisation, hymn playing, and accompanying on the organ. Prereq: Organ proficiency at the 200 level. May be repeated. Maximum 3 hours.

DROP

**240 Church Service Playing I (1)**  
**310 Church Service Playing II (1)**

REVISE PREREQUISITE

**460-470 The Organ and Its Literature (3,3)** Prereq/Coreq: Musicology 220, consent of instructor.

### Music General (698)

DROP

**140 Fundamentals of Performance (1-2)**

ADD

**101 Fundamentals of Performance (1-2)** Private instrumental or vocal study, one or two half lessons per week. ( 1 hour credit - elective, secondary or minor; 2 hours credit - major) Admission by audition. This course is designed to prepare students for enrollment in Music Performance 103-195. Cannot be used to satisfy applied music requirements at the principal level in the Bachelor of Music or the Bachelor of Arts degree in Music. Requires payment of applied music fees. May be repeated. Maximum 12 hours. A, B, C, No Credit grading.

Reference Chart for Curriculum System Entry

Current Course Music General (698)	Fall 2005 Music General (698)
140	101

ADD PREREQUISITE/COREQUISITE

**301 Junior Recital (0)** Prereq: Music Theory 120, 140, Musicology 200 or 110. Coreq: 300-level Music Performance.

**401 Senior Recital (0)** Prereq: Music Theory 220, 240, Musicology 220, Music General 301. Coreq: 400-level Music Performance.

**411 Lecture Recital (0)** Prereq: Music Theory 220, 240, Musicology 220. Coreq: 400-level Music Performance.

**Music Performance (713)**

DROP

**176, 276, 376, 476 Electric Bass (1-4)**

**179, 279, 379, 479 Guitar (1-4)**

Reference Chart for Curriculum System Entry

Current Courses (713) Music Performance	Fall 2005 (713) Music Performance
176 Electric Bass (1-4)	172 Electric Bass (1-3)
276 Electric Bass (1-4)	272 Electric Bass (1-3)
376 Electric Bass (1-4)	372 Electric Bass (1-3)
476 Electric Bass (1-4)	472 Electric Bass (1-3)
179 Guitar (1-4)	183 Guitar (1-3)
279 Guitar (1-4)	283 Guitar (1-3)
379 Guitar (1-4)	383 Guitar (1-3)
479 Guitar (1-4)	483 Guitar (1-3)

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**103 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**104 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 103, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**105 Oboe (1-3)** By audition only. Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**106 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 105, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**110 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**111 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 110, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**115 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**116 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 115, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**120 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**121 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 120, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**125 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**126 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 125, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**130 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**131 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 130, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**135 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**136 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 135, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**140 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**141 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 140, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**145 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**146 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 145, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.  
REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**150 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**151 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 150, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**155 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**156 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 155 grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**160 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**161 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 160, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**165 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**166 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 165, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**170 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**171 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 170, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**172 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.



ADD

**173 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 172, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**174 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**175 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 174, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**180 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**181 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 180, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**183 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**184 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 183, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**185 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**186 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 185, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**189 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**190 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent. Music Performance 189, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**203 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 104, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**204 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 203, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**205 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 106, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**206 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 205, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**210 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 111, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**211 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 210, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**215 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 116, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**216 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 215, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**220 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 121, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**221 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 220, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**225 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 126, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**226 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent. Music Performance 225, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**230 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 131, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**231 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 230, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**235 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 136, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**236 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 235, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**240 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 141, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**241 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 240, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**245 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 146, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**246 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 245, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**250 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent. Music Performance 151, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**251 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 250, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**255 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 156, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**256 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 255, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**260 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 161, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**261 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 260, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-B.M. students. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**265 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 166, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**266 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 265, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**270 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 171, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**271 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 270, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**272 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 173, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**273 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 272, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**274 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 175, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**275 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 274, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**280 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 181, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**281 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 280, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**283 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 184, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**284 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 283, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**285 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 186, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**286 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 285, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

ADD

**289 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 190, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**290 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 289, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated by non-BM students. Maximum 8 hours.

REVISE PREREQUISITE/COREQUISITE, REPEATABILITY

**294 Composition (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Theory 210, 230 grade C or higher, or consent of instructor. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

ADD

**295 Composition (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 294, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be taken once for 1-3 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**303 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 204, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**304 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 303, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**305 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 206, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**306 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 305, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**310 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 211, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**311 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 310, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**315 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 216, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**316 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 315, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**320 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 221, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**321 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 320, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**325 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 226, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**326 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 325, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**330 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 231, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**331 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 330, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**335 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 236, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**336 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 335, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**340 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 241, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**341 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 340, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**345 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 246, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**346 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 345, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**350 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 251, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**351 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 350, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**355 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 256, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**356 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 355, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**360 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 261, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**361 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 360, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**365 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 266, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**366 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 265, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**370 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 271, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**371 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 370, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**372 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 273, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**373 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 372, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**374 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 275, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**375 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 374, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**380 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 281, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**381 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 380, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**383 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 284, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**384 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 383, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**385 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 286, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**386 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 385, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**389 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 290, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**390 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 389, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.



## REVISE PREREQUISITE/COREQUISITE, REPEATABILITY

**394 Composition (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 295, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated Maximum 8 hours.

## REVISE TITLE, PREREQUISITE/COREQUISITE, REPEATABILITY

**395 Composition (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 394, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## ADD

**396 Composition with Electronic Media (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Theory 210, 230, grade of C or higher, or consent of instructor. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**403 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 304, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours. ADD

**404 Flute (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 403, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**405 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 306, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## ADD

**406 Oboe (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 405, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**410 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 311, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## ADD

**411 Bassoon (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 410, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**415 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 316, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## ADD

**416 Clarinet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 415, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**420 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 321, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## ADD

**421 Saxophone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 420, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**425 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 326, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**426 Horn (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 425, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**430 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 331, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**431 Trumpet (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 430, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**435 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 336, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**436 Trombone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 435, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**440 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 341, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**441 Baritone (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 440, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**445 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 346, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**446 Tuba (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 445, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**450 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 351, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**451 Percussion (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 450, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

## REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**455 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 356, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**456 Voice (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 455, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**460 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 361, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**461 Violin (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 460, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**465 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 366, grade of C or better. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**466 Viola (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 465, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**470 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 470, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**471 Cello (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 470, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**472 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 373, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**473 Electric Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). Music Performance 472, grade C or higher. May be repeated. Maximum 8 hours.

ADD

**474 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 375, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**475 String Bass (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 474, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**480 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 381, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**481 Piano (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 480, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**483 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 384, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**484 Guitar (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 483, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**485 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 386, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**486 Harpsichord (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 485, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**489 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 390, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE CREDIT HOURS, PREREQUISITE/COREQUISITE, REPEATABILITY

**490 Organ (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 489, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE PREREQUISITE/COREQUISITE, REPEATABILITY

**494 Composition (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 395, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE TITLE, PREREQUISITE/COREQUISITE, REPEATABILITY

**495 Composition (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 494, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

ADD

**496 Composition with Electronic Media (1-3)** By audition only. Prereq: Music General 101 or equivalent; Music Performance 396, grade C or higher. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). May be repeated. Maximum 8 hours.

REVISE PREREQUISITE/COREQUISITE, REPEATABILITY

**499 Improvisation (1-2)** By audition only. Prereq: Music General 101 or equivalent and consent of instructor. Coreq: Ensemble appropriate to degree program (see School of Music Undergraduate Handbook). Cannot be used to satisfy applied music requirement. May be repeated. Maximum 4 times.

## DEPARTMENT OF PHILOSOPHY

### Philosophy (745)

DROP

**120 Foundations of Western Thought: Antiquity through 1500 (3)**

**479 Studies in Recent Continental Philosophy (3)**

ADD

**117 Honors: Introduction to Philosophy I (3)** Honors version of Philosophy 110. Permission of the department is required. The course need not be taken before 118. *(AH)*

**118 Honors: Introduction to Philosophy II (3)** Honors version of Philosophy 111. Permission of the department is required. The course may be taken before 117. **(AH)**

**241 Engineering Ethics (3)** Ethical issues in engineering at the intersection of science, business, and society. Such topics as international concerns; risk, safety, and the environment; employee loyalties and professional responsibility; professional organizations and codes of conduct. Writing-emphasis course. **(AH) (WC)**

**443 Advanced Business Ethics (3)** Advanced topics in business ethics. When content varies, may be repeated. Maximum 6 hours.

**445 Advanced Environmental Ethics (3)** Advanced topics in environmental ethics. When content varies, may be repeated. Maximum 6 hours.

DROP

**240 Ethics (AH) (WC)**

ADD

**340 Ethics (3)** Theories of ethical values. Writing-emphasis course. **(WC)**

REVISE TITLE AND DESCRIPTION

**242 Contemporary Moral Issues (3)** Issues such as euthanasia, capital punishment, reproductive technologies, sexual ethics, diversity, war, world poverty, employment practices, and the environment, in light of philosophical analysis and ethical theory. Writing-emphasis course. **(AH)**

REVISE DESCRIPTION

**290 Social and Political Philosophy (3)** Issues such as the obligation to obey the law, liberty, oppression, equality, rights, democracy, and the just society. Writing-emphasis course. **(AH) (WC)**

DROP

**342 Business Ethics (3) (WC)**

ADD

**243 Business Ethics (3)** The proper roles of ethics in business in general and such specific issues as the meaning and value of work; employee rights and responsibilities; marketing; finance; the environment; information technology; diversity and discrimination; international business; economic globalization; ethical business cultures. Readings will include philosophical essays and contemporary case studies. Writing-emphasis course. **(AH) (WC)**

DROP

**344 Professional Responsibility (3)** *(Same as Legal Studies 344; Religious Studies 344.) (OC)*

ADD PRIMARY COURSE AND CROSS-LIST

**244 Professional Responsibility (3)** Critical analysis of selected classic texts from philosophy, religious studies, and social sciences dealing with responsibility and the nature of professionalism. Theoretical principles and analytical skills applied to selected case studies and other detailed descriptions of professional practice from engineering/architecture; business/accounting; and at least one of: law/politics; helping professions (social work, human services, ministry); teaching. Writing-emphasis course. *(Same as Legal Studies 244; Religious Studies 244.) (AH) (OC)*

DROP

**346 Environmental Ethics (3) (WC)**

ADD

**245 Environmental Ethics (3)** Issues concerning the nature of the environment and the place of humanity within it. Writing-emphasis course. **(AH)**

DROP PRIMARY CROSS-LISTED COURSE

**345 Bioethics (3)** *(Same as Religious Studies 345.) (WC)*

## ADD PRIMARY COURSE AND CROSS-LIST

**246 Bioethics (3)** Ethical issues in health care such as abortion, euthanasia, human experimentation, fairness in health care delivery and the doctor-patient relationship. Writing-emphasis course. (Same as Religious Studies 246.) **(AH) (WC)**

Reference Chart for Curriculum System Entry

Current Courses Philosophy (745)	Fall 2005 Philosophy (745)
240 Ethics# <b>(AH) (WC)</b>	340 Ethics# <b>(WC)</b>
342 Business Ethics# <b>(WC)</b>	243 Business Ethics# <b>(AH)(WC)</b>
344 Professional Responsibility*# <b>(OC)</b> (Primary course) Secondary courses: Legal Studies 344; Religious Studies 344.	244 Professional Responsibility*# (Primary course) Secondary courses: Legal Studies 244; Religious Studies 244. <b>(AH) (OC)</b>
345 Bioethics# <b>(WC)</b>	246 Bioethics# <b>(AH) (WC)</b>
346 Environmental Ethics*# <b>(WC)</b> (Primary course) Secondary course: Religious Studies 346.	245 Environmental Ethics*# (Primary course) Secondary course: Religious Studies 246. <b>(AH)</b>

\*Cross-listed course

#General Education course

REVISE TITLE, DESCRIPTION, REPETITION, AND PREREQUISITES  
[and restore to Undergraduate Catalog (inadvertently deleted)]:

**446 Advanced Bioethics (3)** Advanced topics in bioethics. When content varies, may be repeated. Maximum 6 hours.

## DEPARTMENT OF PHYSICS AND ASTRONOMY

## Astronomy (150)

REVISE TITLE AND DESCRIPTION

**151 A Journey through the Solar System (4)** Study of Earth's nearest astronomical neighbors including the sun, planets, asteroids, and comets. Seasons, solar and lunar eclipses, motion of the planets in the night sky, recent planetary space probe discoveries, development of our modern understanding of the origin and evolution of our solar system and its place in the universe, discovery of extrasolar planets in distant solar systems. A minimum of mathematical analysis. Only one of the three courses (151, 161, or 217) may be taken for credit. **(NS)**

**152 Stars, Galaxies, and Cosmology (4)** Life and death of stars, exotic objects including white dwarfs, supernovae, neutron stars, pulsars, and black holes. Structure of galaxies, formation of large-scale structure in the universe, and cosmological issues such as the big bang, dark matter, dark energy, and the past, present, and projected future behavior of the universe in light of modern astrophysics and particle physics. Conditions for the existence of life in the universe and the possibility of extraterrestrial intelligence. A minimum of mathematical analysis. Only one of the three courses (152, 162, or 218) may be taken for credit. **(NS)**

**161 A Journey through the Solar System with Laboratory (4)** Study of Earth's nearest astronomical neighbors including the sun, planets, asteroids, and comets. Seasons, solar and lunar eclipses, motion of the planets in the night sky, recent planetary space probe discoveries, development of our modern understanding of the origin and evolution of our solar system and its place in the universe, discovery of extrasolar planets in distant solar systems. A minimum of mathematical analysis. Principles for interpretation of astronomical observations are reinforced in laboratory. Only one of the three courses (151, 161, or 217) may be taken for credit. **(NS)**

**162 Stars, Galaxies, and Cosmology with Laboratory (4)** Life and death of stars, exotic objects including white dwarfs, supernovae, neutron stars, pulsars, and black holes. Structure of galaxies, formation of large-scale structure in the universe, and cosmological issues such as the big bang, dark matter, dark energy, and the past, present, and projected future behavior of the universe in light of modern astrophysics and particle physics. Conditions for the existence of life in the universe and the possibility of extraterrestrial intelligence. A minimum of mathematical analysis. Principles for interpretation of astronomical observations are reinforced in the laboratory. Only one of the three courses (152, 162, or 218) may be taken for credit. **(NS)**

## DEPARTMENT OF POLITICAL SCIENCE

## Political Science (801)

ADD PRIMARY COURSE AND CROSS-LIST

**402 The City in the United States (3)** Development and character of U.S. cities. Contemporary issues and selected case studies (Same as Urban Studies 411.)

**403 Survey of Planning (3)** History of city development and of planning. U.S. experience in urban and other levels of planning. State of the art process, comprehensive plan, implementation devices. Planning issues in society. Not for credit for MSP degree. (*Same as Urban Studies 412.*)

**446 Housing (3)** Nature and demand for housing in the U.S. and abroad. U.S. experience. Private market processes and public influences. Problems of change in housing supply, impact of new technology, and governmental programs to increase supply and quality of housing. (*Same as Urban Studies 446.*)

## REVISE DESCRIPTION

**102 Introduction to Political Science (3)** Introduction to politics and political systems emphasizing government in a cross-national and global perspective. Focus on the knowledge and principal concerns of political science as a social science. **(SS)**

**107 Honors: United States Government and Politics (3)** Analysis and exploration of the American political system for students with superior ability. In order to enroll: (1) current students must have a cumulative GPA of 3.25 or higher; (2) incoming students must have either a 29 ACT composite or 1250 SAT composite.

**DEPARTMENT OF PSYCHOLOGY****Psychology (830)**

ADD

**431 Psychology of Adjustment (3)** Current psychosocial trends and their influence on personal adjustment and mental health. From scientist-practitioner perspectives of theory, research, and application.

## REVISE DESCRIPTION

**434 Psychology of Gender (3)** Biological, psychological, and social factors in gender. Importance of gender roles and stereotypes for behavior and experience. Writing-emphasis course. Prereq: 110 and junior standing (60 semester hours) or consent of instructor. (*Same as Women's Studies 434.*)

**DEPARTMENT OF RELIGIOUS STUDIES****Religious Studies (863)**

ADD

**401 Texts and the Study of Texts (3)** Systematic introduction to the nature and function of (primarily, but not exclusively, oral and written) texts and textual traditions in the study of religion. How texts are made and used historically, how they are recovered and created by scholars, how they are interpreted by religious communities and scholars.

## DROP SECONDARY CROSS-LISTED COURSES

**344 Professional Responsibility (3)** (*See Philosophy 344.*) **(OC)**

**345 Bioethics (3)** (*See Philosophy 345.*) **(WC)**

## ADD SECONDARY CROSS-LISTED COURSES

**244 Professional Responsibility (3)** (*See Philosophy 244.*) **(AH) (OC)**

**246 Bioethics (3)** (*See Philosophy 246.*) **(AH) (WC)**

## REVISE TITLE AND DESCRIPTION OF PRIMARY CROSS-LISTED COURSES

**321 New Testament and Early Christian Origins (3)** Influence of pre-Christian Judaism and Greco-Roman culture and philosophy on early Christianity. Variety of early Christian teachings and texts, and the formation of the New Testament. Survey of the early history of Christianity up to its adoption by the emperor Constantine. Writing-emphasis course. (*Same as History 321.*)

**322 Christian Thought in Late Antiquity (3)** Major themes, events, texts, and figures of Christianity in the Roman and Byzantine Empires (after the New Testament period). Includes the study of early Christian controversies over topics such as gender and sexuality, Christianity and politics, interpreting scripture, and defining Christian "orthodoxy." Writing-emphasis course. (*Same as History 322.*)

## REVISE DESCRIPTION

**333 Islam in the Modern World (3)** Beginning with the Wahhabi revolution (ca. 1773 CE), this course examines movements of revival and reform in modern Islam, as well as worldwide missionary activity and the growth of the Islamic community in the U.S. Writing-emphasis course. Prereq: Religious Studies 332 or consent of instructor. (*Same as Asian Studies 333.*)

**DEPARTMENT OF SOCIOLOGY****Sociology (915)**

## ADD

**452 Minorities, Crime and Criminal Justice (3)** Examines racial/ethnic disparities in criminal offending and victimization, as well as different experiences with law enforcement, judicial and correctional agencies. Emphasis on social justice.

**453 Gender and Crime (3)** Probes the gendered nature of offending, victimization and criminal justice. Examines the different experiences of males and females, and theories that attempt to explain these differences.

**495 Social Justice and Community Service (3)** Examines social stratification, inequalities, and social justice. Service Learning component offers supervised internships in the community with service agencies and non-profit organizations. For sociology majors with senior standing. Instructor's permission required.

## DROP SECONDARY CROSS-LISTED COURSE

**320 Interpersonal Communication Processes (3)** (*See Communication Studies 320.*)

## DROP

**399 Off-Campus Internship (1-6)**

**415 Sociology of Aging (3)**

## DROP SECONDARY CROSS-LISTED COURSE

**471 Sociolinguistics (3)** (*See English 471.*)

## REVISE DESCRIPTION

**350 Criminology (3)** Systematic inquiry into how crime is defined, measured and explained. Implications for criminal justice policy.

## REVISE TITLE AND DESCRIPTION

**351 Juvenile Delinquency and Social Policy (3)** This course examines the historical and contemporary nature and social contexts of juvenile delinquency, as well as theoretical explanations of and social reactions to delinquency in American society.

**DEPARTMENT OF THEATRE****Theatre (976)**

## ADD

**352 Entertainment Technology I (3)** Techniques in live entertainment production, including scenery techniques, structures, special effects and rigging. Prereq: 252 or consent of instructor.

## DROP

**451 Advanced Scenery Technology II (3)**

## REVISE CREDIT HOURS AND REPETITION

**425 Selected Musical Theatre Technique (3)** Study and practice of musical theatre material: dance and vocal work. May be repeated. Maximum 6 hours.

## REVISE TITLE, CREDIT HOURS, DESCRIPTION, PREREQUISITE, REPEATABILITY

**450 Special Studies in Entertainment Technology (1-3)** Content varies. May be repeated. Maximum 9 hours. Prereq: consent of instructor.



REVISE TITLE, DESCRIPTION, PREREQUISITE

**452 Entertainment Technology II (3)** Automation systems in live entertainment, including advanced rigging and flying for stage and film Prereq: 352 or consent of instructor.

REVISE TITLE, DESCRIPTION, REPEATABILITY

**464 Computer Aided Drafting for the Theatre (3)** Introduction to entertainment drafting. Emphasis on 2D graphical standards, drafting techniques, drawing layout and presentation.

## DEPARTMENT OF URBAN AND REGIONAL PLANNING

DROP ACADEMIC DISCIPLINE AND ALL COURSES

### Planning (782)

**401 The City (3)** (Same as Urban Studies 401.)

**402 Survey of Planning (3)** (Same as Urban Studies 402.)

**446 Housing (3)**

Reference Chart for Curriculum System Entry

Current Courses Planning (782)	Fall 2005 Political Science (801)
401* Primary course. (Same as Urban Studies 401.)	Political Science 402* Primary course. (Same as Urban Studies 411.)
402* Primary course. (Same as Urban Studies 402.)	Political Science 403* Primary course. (Same as Urban Studies 412.)
446	Political Science 446* Primary course. (Same as Urban Studies 446.)

\*Cross-listed courses

**Part II: Program Changes****COLLEGE OF ARTS AND SCIENCES**

## REVISE DISTRIBUTION LISTS

Add to Basic Skills Requirements, Mathematics and Quantitative Reasoning:  
Mathematics 113, 117

Drop from Divisional Distribution Requirements, Natural Science, List A:  
Biology 130-140  
Botany 110-120

Add to Divisional Distribution Requirements, Natural Science, List A:  
Biology 111-112

Revise in Divisional Distribution Requirements, Natural Science, List A:  
Geology 101 and either 102 or 103 should be revised to "two from Geology 101, 102, 103

Drop from Divisional Distribution Requirements, Natural Science, List B:  
Botany 306 (Same as Anthropology 306), 309, 310, 330

Add to Divisional Distribution Requirements, Natural Science, List B:  
Biochemistry and Cellular and Molecular Biology 306 (Same as Anthropology 304)  
Biology 130, 157  
Ecology and Evolutionary Biology 309, 330, 410  
Geology 205

Drop from Upper Level Distribution, United States Studies:  
History 441, 442, 454, 459

Add to Upper Level Distribution, United States Studies:  
African and African American Studies 445, 446  
History 445  
Women's Studies 469

Add to Upper Level Distribution, Foreign Studies, Asia:  
Art History 464

Drop from Upper Level Distribution, Foreign Studies, Europe:  
Medieval Studies 372, 382

Add to Upper Level Distribution, Foreign Studies, Europe:  
Judaic Studies 431  
Medieval Studies 431, 441, 451

Drop from Upper Level Distribution, Foreign Studies, Latin America:  
Cinema Studies 465  
Geography 372  
Latin American Studies 465  
Spanish 465

## REVISE COLLEGE REQUIREMENTS

- On page 80 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Requirements for Degrees, Revise 2<sup>nd</sup> bullet
  - From
    - A minimum of 124 credit hours.
  - To
    - A minimum of 120 credit hours.
  
- On page 81 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Revise the paragraph headed Communicating through Writing by adding the following sentence to the end of the paragraph:
  - WC courses may also satisfy college distribution requirements.

- On page 81 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Revise the paragraph headed Communicating Orally by adding the following sentence to the end of the paragraph:
- OC courses may also satisfy college distribution requirements.
- On page 83 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Areas of Concentration, Required Major, Revise 3<sup>rd</sup> sentence
- From
- Up to 6 credit hours taken in the major may also be used to satisfy basic skills or divisional distribution requirements where listed.
- To
- Courses taken to satisfy the university's OC and WC requirements may, when appropriate, be used in the major. An additional six credits taken in the major may also be used to satisfy basic skills or divisional distribution requirements.
- On Page 82 of the 2004-2005 Undergraduate Catalog, Column 1, under Humanities, Revise the second paragraph
- From
- Bachelor of Arts students may meet this requirement by completion of three courses, of which at least one must be selected from List A and one from List B. Bachelor of Science students must complete a minimum of two courses: not more than one course may be taken from List C. All courses in Lists A and B are writing-emphasis courses.
- To
- To meet the University's general education requirement, students must choose two courses identified by an asterisk (\*) from the list of courses below.
- Bachelor of Arts Students must complete three courses. At least two of the three courses must be chosen from those indicated by asterisks (\*). In addition, one course must be selected from List A, one from List B, and one from List A, B, or C. Bachelor of Science students must complete two courses. Both courses must be chosen from those indicated by asterisks (\*). One course must be selected from List A or B.
- On Page 82 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Humanities, Revise Lists A, B, and C to
- HUMANITIES**
- List A: Literature**  
African and African-American Studies \*233; Asian Languages 311, 312, 313, 314; Classics \*253; Comparative Literature 202, 203; English \*201, \*202, \*207, \*208, \*221, \*222, \*231, \*232, \*233, \*237, \*238, \*251, \*252, \*253, \*254; Information Sciences 330; Italian 401, 402; Judaic Studies 312; Latin American Studies 315; Medieval Studies 261, 262, 401, 402; Portuguese 315; Religious Studies 312, 313; Russian 221, 222; Women's Studies 210, 215.
- List B: Philosophical and Religious Thought**  
Classics 201, 221, 222; History 321, 322; Legal Studies 244; Philosophy \*110, \*111, \*117, \*118, \*241, \*242, \*243, \*244, \*245, \*246, \*290, \*340, 382; Religious Studies 101, 102, 244, 246, 321, 322; Women's Studies 382.
- List C: Study or Practice of the Arts**  
African and African-American Studies \*162; Architecture 111; Art 191; Art History \*162, \*167, \*172, \*173, \*177, \*178, \*183, \*187; Classics \*232; Communication Studies 280; English 263; Musicology \*110, \*115, \*120, \*125; Philosophy 350, 353; Theatre \*100, 220.
- On page 82 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, under **Social Science**, Revise the second and third paragraphs to
- Bachelor of Arts students may meet this requirement by completion of four courses from at least two departments listed below. To meet the University's general education requirement, two of the courses selected must be from List A. The other courses can be chosen from List A or List B. Bachelor of Science students must complete two courses from different departments. To meet the University's general education requirement, both courses must be selected from List A.
- List A:**  
African and African-American Studies 201, 202; Anthropology 130; Economics 201, 207; Geography 101, 102; Political Science 102; Psychology 110, 117; Sociology 110, 117, 120, 127.

**List B:**

African and African-American Studies 310; Anthropology 120, 362; Audiology and Speech Pathology 320; Communication Studies 201, 220, 260, 330; Ecology and Evolutionary Biology 304; Educational Psychology 210; Geography 320; Global Studies 250; Linguistics 200; Musicology 290, 310; Political Science 101, 107; Psychology 220, 360; Religious Studies 232, 301; Sociology 232, 250, 344, 370; Urban Studies 323; Women's Studies 220.

## REVISE PRE-PROFESSIONAL PROGRAMS MAJOR - PRE-DENTAL CONCENTRATION

- On page 85 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, under Requirements for the Bachelor of Science, Pre-Professional Programs Major, Pre-Dental Concentration, delete the beginning statement, showcase, and footnotes and replace with the following:

**Requirements for the Bachelor of Science - Pre-Professional Programs Major - Pre-Dental Concentration**

	Hours Credit
<b>Freshman</b>	
English 101*-102* .....	6
Biology 130 (see Note 1) .....	4
Biology 140 .....	4
Chemistry 120*-130* .....	8
Mathematics* (see Note 2) .....	6-8
Electives.....	3
<b>Sophomore</b>	
Chemistry 350-360, 369.....	8
Physics 221-222 .....	8
Foreign Language Intermediate Level* (see Note 3).....	6
Humanities* (see Note 4).....	3-6
Non-U.S. History*.....	6
Communication Studies 210* or 240* .....	3
<b>Junior</b>	
Humanities* (see Note 4).....	3
Communicating through Writing (WC) course* .....	3
Social Sciences* (see Note 5) .....	6-12
Upper-Level Distribution (see Note 6).....	6-9
Electives to reach total (see Note 7)	
<b>Total</b>	<b>90 (minimum)</b>

**Senior**

Completion of major program and Bachelor of Arts//Bachelor of Science requirements or completion of one year at the University of Tennessee Health Science Center in Memphis.

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Total 120

\*Meets University General Education Requirement.

## NOTES:

1. Pre-dentistry students who have previously completed Biology 101 and 102 may substitute this sequence for Biology 130.
2. Math placement depends on high school courses and grades, ACT scores, the Math placement exam, and BA/BS requirements. Math 130 or any calculus course is a prerequisite to Physics. At least two courses must satisfy the University General Education Requirement in Quantitative Reasoning.
3. This plan assumes a student has had enough language background in high school to begin an intermediate language sequence at UTK.
4. BA students must select one course from List A: Literature, one course from List B: Philosophical and Religious Thought, and one additional course from List A, B, or C. BS students must complete a minimum of two courses from the three lists under the humanities requirement; not more than one course may be taken from List C. At least two courses must satisfy the University General Education requirement in Arts and Humanities.
5. BA students must complete a minimum of four courses from at least two departments; BS students must complete a minimum of two courses from two departments. At least two courses must satisfy the University General Education Requirement in Social Sciences.
6. BA students must complete one course from List A: US Studies, one course from List B: Foreign Studies, and one additional course from List A or B. BS students must complete one course from List A and one from List B.
7. Recommended electives include Biology 240 Genetics, Microbiology 310-319 Introduction to Microbiology, BCMB 330-331 Animal Development and Embryology; 421 Cell and Tissue Structure and Function, 230 Human Physiology, EEB 350 Comparative Vertebrate Biology, Anthropology 480 Human Osteology, and Anthropology 485 Oral Biology. Courses such as economics, philosophy, psychology, social science, and other arts and sciences courses are also recommended to provide the applicant with a well-rounded education.

## REVISE PRE-PROFESSIONAL PROGRAMS MAJOR · PRE-MEDICAL CONCENTRATION

- On Page 85 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, under Requirements for the Bachelor of Science, Pre-Professional Programs Major, Pre-Medical Concentration, delete the beginning statement, showcase, and footnotes, and replace with the following:

**Requirements for the Bachelor of Science · Pre-Professional Programs Major · Pre-Medical Concentration**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*-102* .....	6
Biology 130 (see Note 1) .....	4
Biology 140 .....	4
Chemistry 120*-130* .....	8
Mathematics* (see Note 2) .....	6-8
Electives.....	3
<b>Sophomore</b>	
Chemistry 350-360, 369.....	8
Physics 221-222 .....	8
Foreign Language Intermediate Level* (see Note 3).....	6
Humanities* (see Note 4).....	3-6
Non-U.S. History*.....	6
Communication Studies 210* or 240* .....	3
<b>Junior</b>	
Humanities* (see Note 4).....	3
Communicating through Writing (WC) course* .....	3
Social Sciences* (see Note 5) .....	6-12
Upper-Level Distribution (see Note 6).....	6-9
Electives to reach total (see Note 7)	
Total	90 (minimum)
<b>Senior</b>	
Completion of major program and Bachelor of Arts/Bachelor of Science requirements or completion of one year at the University of Tennessee Health Science Center in Memphis.	
Total	120

\*Meets University General Education Requirement.

## NOTES:

1. Pre-Medicine students who have previously completed Biology 101 and 102 may substitute this sequence for Biology 130.
2. Math placement depends on high school courses and grades, ACT scores, the Math placement exam, and BA/BS requirements. Math 130 or any calculus course is a prerequisite to Physics. At least two courses must satisfy the University General Education Requirement in Quantitative Reasoning.
3. This plan assumes a student has had enough language background in high school to begin an intermediate language sequence at UTK.
4. BA students must select one course from List A: Literature, one course from List B: Philosophical and Religious Thought, and one additional course from List A, B, or C. BS students must complete a minimum of two courses from the three lists under the humanities requirement; not more than one course may be taken from List C. At least two courses must satisfy the University General Education Requirement in Arts and Humanities.
5. BA students must complete a minimum of four courses from at least two departments; BS students must complete a minimum of two courses from two departments. At least two courses must satisfy the University General Education Requirement in Social Sciences.
6. BA students must complete one course from List A: US Studies, one course from List B: Foreign Studies, and one additional course from List A or B. BS students must complete one course from List A and one from List B.
7. Although not specifically required, Biology 240 Genetics and Microbiology 310-319 Introduction to Microbiology are recommended as preparation for the MCAT. Additional recommended courses include: BCMB 330-331 Animal Development and Embryology; 401-402 Biochemistry-Molecular Biology; 421 Cell and Tissue Structure and Function; 440 General Physiology.

## REVISE PRE-PROFESSIONAL PROGRAMS MAJOR · PRE-PHARMACY CONCENTRATION

- On page 86 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, under Pre-Pharmacy Concentration, 2<sup>nd</sup> paragraph, 2<sup>nd</sup> sentence, revise to

In the three-year program, the student must complete at least 90 credit hours while enrolled in the College of Arts and Sciences, and the Bachelor of Science degree is granted upon satisfactory completion of the first year of study in Memphis.

- On page 86 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, under Requirements for the Bachelor of Science, Pre-Professional Programs Major, Pre-Pharmacy Concentration, delete the beginning statement, showcase, and footnotes, and replace with the following:

**Requirements for the Bachelor of Science · Pre-Professional Programs Major · Pre-Pharmacy Concentration**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*-102* or equivalent.....	6
Chemistry 120*-130* .....	8
Biology 130 (see Note 1) .....	4
Biology 140 .....	4
Mathematics 125*, 141*, or 152* (see Note 2) .....	3-4
Statistics 201* .....	3
Foreign Language - Intermediate Level* (see Note 3).....	6
<b>Sophomore</b>	
Chemistry 350-360 and 369.....	8
Biology 240 .....	4
Physics 221.....	4
Communication Studies 210* or 240* .....	3
Social Sciences* (see Note 4) .....	6
Non-U.S. History* .....	6
Humanities* (see Note 5).....	3-6
<b>Junior</b>	
Biochemistry and Cellular and Molecular Biology 401-402.....	8
Social Sciences* (see Note 4) .....	0-6
Humanities* (see Note 5).....	3
Upper-Level Distribution (see Note 6).....	6-9
Microbiology 210 or 310-319 (see Note 7).....	3-5
Microbiology 430.....	3
Biochemistry and Cellular and Molecular Biology 230.....	5
Ecology and Evolutionary Biology 240.....	4
Communicating through Writing (WC) course* (see Note 8) .....	0-3
<b>Total</b>	<b>100 (minimum)</b>

**Senior**

Completion of major program and Bachelor of Arts/Bachelor of Science requirements or completion of one year at the University of Tennessee Health Science Center in Memphis.

**Total 120**

\*Meets University General Education Requirement.

## NOTES:

- Pre-pharmacy students who have previously completed Biology 101 and 102 may substitute this sequence for Biology 130.
- Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements. If a student is considering a major in a biological or physical science, he/she should consult the catalog for the appropriate math courses.
- This plan assumes a student has had enough language background in high school to begin an intermediate language sequence at UTK.
- At least two social science courses should be selected from Economics 201, Political Science 102, Psychology 110, Sociology 110, 120. BA students must complete a minimum of four courses from at least two departments; BS students must complete a minimum of two courses from at least two departments.
- BA students must select one course from List A: Literature, one course from List B: Philosophical and Religious Thought, and one additional course from List A, B, or C. BS students must complete a minimum of two courses from the three lists under the humanities requirement; not more than one course may be taken from List C. At least two courses must satisfy the University General Education Requirement in Arts and Humanities.
- BA students must complete one course from List A: US Studies, one course from List B: Foreign Studies, and one additional course from List A or B. BS students must complete one course from List A and one from List B.
- Students choosing to complete a BS in Biological Sciences from the University of Tennessee, Knoxville, should consider completing Microbiology 310-319 for this requirement since Microbiology 210 will not fulfill a major requirement. Microbiology 310 has a prerequisite of Biology 140 and a corequisite of Biology 240.
- If a course taken for the humanities requirement also appears on the Communicating through Writing (WC) General Education approved list, no additional course is required here.

## REVISE PREPROFESSIONAL PROGRAMS MAJOR · NUCLEAR MEDICINE TECHNOLOGY CONCENTRATION

- On page 87 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Nuclear Medicine Technology Concentration, revise first sentence to

The nuclear medicine technology curriculum requires a minimum of 90 hours credit, including the college's basic skills and distribution requirements and the University General Education Requirement, prior to application for admission to a final year of study at the University of Tennessee Medical Center, Knoxville.

- On page 87 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, under Requirements for the Bachelor of Science, Pre-Professional Programs Major, Nuclear Medicine Technology Concentration, delete the beginning statement, showcase, and footnotes, and replace with the following:

**Requirements for the Bachelor of Science · Pre-Professional Programs Major · Nuclear Medicine Technology Concentration**

	Hours Credit
<b>Freshman</b>	
English 101*-102*; or equivalent.....	6
Chemistry 120*-130* .....	8
Mathematics* (see Note1) .....	6-8
Biology 130 (see Note 2) .....	4
Biology 140 .....	4
Communication Studies 210*.....	3
<b>Sophomore</b>	
Chemistry 350-360, 369.....	8
Foreign Language - Intermediate Level* (see Note 3).....	6
Non-U.S. History* .....	6
Humanities* (one course from List A or B) .....	3
Social Sciences* (see Note 4) .....	6
Computer Science 100 or 102 .....	3-4
<b>Junior</b>	
Biochemistry and Cellular and Molecular Biology 230.....	5
Ecology and Evolutionary Biology 240 .....	4
Physics 221-222 .....	8
Humanities* (one course from List A, B, or C).....	3
Upper-Level Distribution B (one course from List A and one course from List B).....	6
Communicating through Writing (WC) course* .....	3
<b>Senior</b>	
Completion of Nuclear Medicine Technology program at the University of Tennessee Medical Center, Knoxville UTMCK (12 month program) or completion of major program and Bachelor of Arts or Bachelor of Science requirements.	
<b>Fall Semester</b>	
<b>Hours Credit</b>	
410 Physics for Nuclear Medicine I .....	3
411 Nuclear Instrumentation .....	3
412 Radiopharmacy .....	2
420 Clinical Nuclear Medicine I .....	4
450 Clinical Practicum I .....	4
<b>Spring Semester</b>	
415 Physics for Nuclear Medicine II .....	3
425 Computer Applications in Nuclear Medicine.....	3
430 Clinical Nuclear Medicine II .....	4
460 Clinical Practicum II .....	6
<b>Summer Semester</b>	
475 Nuclear Medicine Registry Review.....	2
440 Clinical Nuclear Medicine III .....	4
470 Clinical Practicum III .....	6
Clinical Year Total	44

\*Meets University General Education Requirement.

## NOTES:

1. Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements. All students must complete the Mathematics and Quantitative Reasoning Basic Skills requirement as outlined in the Arts and Sciences Curriculum Guide. Math 130 or any calculus course is a pre-requisite to Physics.
2. Students who have previously completed Biology 101 and 102 may substitute these two courses for Biology 130.



3. This plan assumes a student has had enough language background in high school to begin an intermediate language sequence at UT, Knoxville.
4. Bachelor of Science students must complete a minimum of 6 credits from at least two departments for the Social Science requirement.

## REVISE PRE-PROFESSIONAL PROGRAMS MAJOR, PRE-VETERINARY MEDICINE CONCENTRATION

- On page 87 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, under Requirements for the Bachelor of Science, Pre-Professional Programs Major, Pre-Veterinary Medicine Concentration, delete the beginning statement, showcase, and footnotes, and replace with the following:

**Requirements for the Bachelor of Science - Pre-Professional Programs Major - Pre-Veterinary Medicine Concentration**

	Hours	Credit
<b>Freshman</b>		
English 101*-102* .....	6	
Chemistry 120*-130* .....	8	
Biology 130 (see Note 1) .....	4	
Biology 140 .....	4	
Mathematics* (see Note 2) .....	6-8	
Foreign Language - Intermediate Level Sequence* (see Note 3).....	6	
<b>Sophomore</b>		
Chemistry 350-360, 369.....	8	
Physics 221-222 .....	8	
Biology 240 .....	4	
Non-U.S. History* .....	6	
Social Sciences* (see Note 4) .....	3-6	
Communication Studies 210* or 240* .....	3	
<b>Junior</b>		
Biochemistry and Cellular and Molecular Biology 401-402.....	8	
Social Sciences* (see Note 4) .....	3-6	
Humanities* (see Note 5).....	6-9	
Upper-Level Distribution (see Note 6).....	6-9	
Cellular Biology Elective (see Note 7).....	3	
Communicating through Writing (WC) course* (see Note 8) .....	0-3	
<hr/>		
Total		92 (minimum)
<hr/>		
<b>Senior</b>		
Completion of major program and Bachelor of Arts/Bachelor of Science requirements or completion of one year at the University of Tennessee College of Veterinary Medicine.		
<hr/>		
Total		120 (minimum)

\*Meets University General Education Requirement.

## NOTES:

1. Students who have previously completed Biology 101 and 102 may substitute these two courses for Biology 130.
2. Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements. Math 130 or any calculus course is a prerequisite for Physics. At least two courses must satisfy the University General Education Requirement in Quantitative Reasoning.
3. This plan assumes a student has had enough language background in high school to begin an intermediate language sequence at UT.
4. BA students must complete a minimum of four courses from at least two departments; BS students must complete a minimum of two courses from two departments. At least two courses must satisfy the University's general education requirement in Social Science.
5. BA students must select one course from List A: Literature, one course from List B: Philosophical and Religious Thought, and one additional course from List A, B, or C. BS students must complete a minimum of two courses from the three lists under the humanities requirement; not more than one course may be taken from List C. At least two courses must satisfy the University General Education Requirement in Arts and Humanities.
6. BA students must complete one course from List A: US Studies, one course from List B: Foreign Studies, and one additional course from List A or B. BS students must complete one course from List A and one from List B.
7. Upper-division cell or molecular biology courses are preferred.
8. If a course taken for the humanities requirement also appears on the Communicating through Writing (WC) General Education approved list, no additional course is required here.

## REVISE MEDICAL TECHNOLOGY MAJOR

- On page 88 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Medical Technology Major, Revise the 2<sup>nd</sup> sentence to

The curriculum requires a minimum of 90 hours credit which includes the basic skills and distribution requirements of the college and the University General Education Requirement prior to application for admission to a final year of study at the University of Tennessee Medical Center, Knoxville (UTMCK).

- On page 88 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, under Requirements for the Bachelor of Science, Medical Technology Major, delete the beginning statement, showcase, and footnotes, and replace with the following:

**Requirements for the Bachelor of Science - Medical Technology Major**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*-102* .....	6
Biology 130 (see Note 1) .....	4
Biology 140 .....	4
Chemistry 120*-130* .....	8
Foreign Language - Intermediate Level* (see Note 2).....	6
Mathematics* (see Note 3) .....	6
Communication Studies 210* or 240* .....	3
<b>Sophomore</b>	
Chemistry 110 (see Note 4) .....	4
Biochemistry and Cellular and Molecular Biology 230 .....	5
Biology 240 .....	4
Microbiology 310-319.....	5
Humanities* (one course from List A or B).....	3
Non-US History* .....	6
Communicating through Writing (WC) course* .....	3
<b>Junior</b>	
Chemistry 310-319.....	4
Biochemistry and Cellular and Molecular Biology 310 (see Note 4)....	4
Microbiology 420-429.....	5
Microbiology 430.....	3
Social Sciences* (see Note 5) .....	6
Humanities* (one course from List A, B, or C) .....	3
Upper-Level Distribution (one course from List A and one course from List B).....	6
Elective (see Note 6).....	0-3
<b>Senior</b>	
Medical Technology course of study at UT Medical Center in Knoxville (12 month program) .....	36
<b>Total</b>	<b>120 (minimum)</b>

\*Meets University General Education Requirement.

## NOTES:

- Students who have previously completed Biology 101 and 102 for their lab science requirement may substitute these two courses for Biology 130.
- This plan assumes a student has had enough language background in high school to begin the intermediate language sequence at UTK.
- Math 115-125, Math 123-125, Math 151-152, or Math 141-142 are required for pre-medical technology students. Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements.
- Students who have completed Chemistry 350-360, 369 may substitute it for Biochemistry 310 and Chemistry 110.
- BS students must complete a minimum of two courses from the University's general education requirement in Social Sciences. The courses must be from two departments.
- Classics 273 Medical and Scientific Terminology is a highly recommended elective. One year of U.S. history must have been completed in high school or college prior to graduation from the medical technology program.

**SCHOOL OF ART**

## REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · CERAMICS CONCENTRATION

➤ On page 90 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Ceramics Concentration showcase, to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Ceramics Concentration**

<b>Core</b>	<b>Hours</b>	<b>Credit</b>
Art 101,103 .....	6	
Art 295 .....	3	
Art History 172* and 173* and 162* or 183* .....	9	
Art History Electives.....	6	
One course from each of the following 6 areas:		
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/ Watercolor, Art Printmaking, and Art Sculpture.....	18	
<b>Concentration</b>		
Ceramics 221 or 222.....	3	
Art Ceramics Portfolio Review 320 (Satisfactory/No Credit Grading) .....	0	
Ceramics 321, 322 (prerequisite for all 400-level Ceramics courses).....	6	
Ceramics 421, 422, 429, 493, or 494.....	14	
Approved Concentration Electives:		
9 hours from the following—Art Ceramics 424, 429; Art Drawing 212;Art Sculpture 241, 242, 243, 245, 246; Art Printmaking 262, 263; Art Painting 213, 214, 215 .....	9	
<b><sup>1</sup>Studio Electives</b>		
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 Hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design or Theatre .....		
	15	
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>		
English 101*, 102* or their equivalent.....	6	
Quantitative Reasoning (2 courses)* .....	6	
Natural Sciences (2 courses; at least one with laboratory)* .....	7	
Social Sciences (2 courses)* .....	6	
Cultures and Civilizations (2 courses)* .....	6	
Communicating through Writing* .....	0-3	
Communicating Orally* .....	0-3	
Total		120-126

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.

REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · DRAWING CONCENTRATION

➤ On page 90 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Drawing Concentration showcase, revise to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Drawing Concentration**

<b>Core</b>	<b>Hours Credit</b>
Art 101,103 .....	6
Art 295 .....	3
Art History 172* and 173* and 162* or 183* .....	9
Art History Electives .....	6
One course from each of the following 6 areas:	
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/ Watercolor, Art Printmaking, and Art Sculpture.....	18
<b>Concentration</b>	
Art Drawing 212 (may be repeated).....	3
Art Drawing Portfolio Review 312 (Satisfactory/No Credit Grading) ...	0
Art Drawing 311 (for two semesters) .....	8
Art Drawing 411 (for two semesters) .....	12
Approved Concentration Electives:	
9 hours from the following-Art Drawing 219/419 (maximum 6 hours); Art Painting 213, 214, 215, 216; Art Media Arts 231; Art Printmaking 262, 263 .....	9
<b><sup>1</sup>Studio Electives</b>	
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design or Theatre.....	
	15
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>	
English 101*, 102* or their equivalent.....	6
Quantitative Reasoning (2 courses)* .....	6
Natural Sciences (2 courses; at least one with laboratory)* .....	7
Social Sciences (2 courses)* .....	6
Cultures and Civilizations (2 courses)* .....	6
Communicating through Writing* .....	0-3
Communicating Orally* .....	0-3
<hr/> Total 120-126 <hr/>	

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.

REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · MEDIA ARTS CONCENTRATION

➤ On page 91 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Media Arts Concentration showcase, revise to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Media Arts Concentration**

<b>Core</b>	<b>Hours Credit</b>
Art 101, 103 .....	6
Art 295 .....	3
Art History 172* and 173* and 183* or 162* .....	9
Art History Electives .....	3
Art Media Arts 231, 235, 236 .....	9
One course from each of the following 5 areas:	
Art Drawing, Art Painting/Watercolor, Art Ceramics, Art Sculpture, Art Printmaking .....	15
<b>Concentration</b>	
Art Media Arts 330 (Portfolio Review) (Prerequisite to 300- and 400-level courses) (Satisfactory/No Credit Grading) .....	0
Art Media Arts 433 (History of Modern Art and Film) .....	3
Art Media Arts 435 (Cinematography as Art) .....	6
Art Media Arts 436 (Video Art) .....	6
Art Media Arts 331 (Photography II) or Art Media Arts 341 (Digital Photography I) .....	4
Art Media Arts 431 (Photography III) or Art Media Arts 441 (Digital Photography II) .....	4
300- and 400-level electives in Media Arts .....	9
<b><sup>1</sup>Studio Electives</b>	
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design, or Theatre .....	
	12
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>	
English 101*, 102* or their equivalent .....	6
Quantitative Reasoning (2 courses)* .....	6
Natural Sciences (2 courses; at least one with laboratory)* .....	7
Social Sciences (2 courses)* .....	6
Cultures and Civilizations (2 courses)* .....	6
Communicating through Writing* .....	0-3
Communicating Orally* .....	0-3
<hr/> Total 120-126	

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.

REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · PAINTING CONCENTRATION

➤ On page 91 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Painting Concentration showcase, revise to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Painting Concentration**

<b>Core</b>	<b>Hours Credit</b>
Art 101,103 .....	6
Art 295 .....	3
Art History 172* and 173* and 162* or 183* .....	9
Art History Electives.....	6
One course from each of the following 6 areas:	
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/ Watercolor, Art Printmaking, and Art Sculpture.....	18
<b>Concentration</b>	
Painting 214 (may be repeated).....	3
Art Painting Portfolio Review 314 (Satisfactory/No Credit Grading) ....	0
Painting 313 (for two semesters) .....	8
Painting 413 (for two semesters) .....	12
Approved Concentration Electives:	
9 hours from the following-Art Drawing 219/419 (maximum 6 hours); Art Painting 215, 216; Art Media Arts 231; Art Drawing 212.....	
	9
<b><sup>1</sup>Studio Electives</b>	
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design or Theatre.....	
	15
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>	
English 101*, 102* or their equivalent.....	6
Quantitative Reasoning (2 courses)* .....	6
Natural Sciences (2 courses; at least one with laboratory)* .....	7
Social Sciences (2 courses)* .....	6
Cultures and Civilizations (2 courses)* .....	6
Communicating through Writing* .....	0-3
Communicating Orally* .....	0-3
<hr/> Total 120 -126	

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.

REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · PRINTMAKING CONCENTRATION

➤ On page 91 of the 2004-2005 Undergraduate Catalog, Printmaking Concentration showcase, revise to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Printmaking Concentration**

<b>Core</b>	<b>Hours Credit</b>
Art 101,103 .....	6
Art 295 .....	3
Art History 172* and 173* and 162* or 183* .....	9
Art History Electives.....	6
One course from each of the following 6 areas:	
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/ Watercolor, Art Printmaking, and Art Sculpture.....	18
<b>Concentration</b>	
Printmaking 200-level course.....	3
Art Printmaking Portfolio Review 360 (Satisfactory/No Credit Grading) .....	0
Printmaking 300- and 400-level courses.....	20
<b><sup>1</sup>Studio Electives</b>	
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design or Theatre.....	
	24
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>	
English 101*, 102* or their equivalent.....	6
Quantitative Reasoning (2 courses)* .....	6
Natural Sciences (2 courses; at least one with laboratory)* .....	7
Social Sciences (2 courses)* .....	6
Cultures and Civilizations (2 courses)* .....	6
Communicating through Writing* .....	0-3
Communicating Orally* .....	0-3
<hr/> Total 120-126 <hr/>	

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.

REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · SCULPTURE CONCENTRATION

➤ On page 92 of the 2004-2005 Undergraduate Catalog, Sculpture Concentration showcase, revise to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Sculpture Concentration**

<b>Core</b>	<b>Hours Credit</b>
Art 101,103 .....	6
Art 295 .....	3
Art History 172* and 173 and 162* or 183* .....	9
Art History Electives .....	6
One course from each of the following 6 areas:	
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/ Watercolor, Art Printmaking, and Art Sculpture .....	18
<b>Concentration</b>	
Art Sculpture 200-level course .....	3
Art Sculpture Portfolio Review 340 (Satisfactory/No Credit Grading) Prerequisite to 300- and 400-level courses .....	0
Art Sculpture 300- and 400-level courses .....	20
<b><sup>1</sup>Studio Electives</b>	
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design or Theatre .....	
	24
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>	
English 101*, 102* or their equivalent .....	6
Quantitative Reasoning (2 courses)* .....	6
Natural Sciences (2 courses; at least one with laboratory)* .....	7
Social Sciences (2 courses)* .....	6
Cultures and Civilizations (2 courses)* .....	6
Communicating through Writing* .....	0-3
Communicating Orally* .....	0-3
<hr/> Total 120 -126	

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.



REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · STUDIO ART MAJOR · WATERCOLOR CONCENTRATION

➤ On page 92 of the 2004-2005 Undergraduate Catalog, Watercolor Concentration showcase, revise to

**Requirements for the Bachelor of Fine Arts • Studio Art Major • Watercolor Concentration**

<b>Core</b>	<b>Hours Credit</b>	
Art 101,103 .....	6	
Art 295 .....	3	
Art History 172* and 173* and 162* or 183* .....	9	
Art History Electives.....	6	
One course from each of the following 6 areas:		
Art Ceramics, Art Drawing, Art Media Arts, Art Painting/Watercolor, Art Printmaking, and Art Sculpture .....	18	
<b>Concentration</b>		
Painting 216 (may be repeated).....	3	
Art Painting Portfolio Review 316 (Satisfactory/No Credit Grading) ....	0	
Art Painting 315 (for two semesters).....	8	
Art Painting 415 (for two semesters).....	12	
Approved Concentration Electives:		
9 hours from the following-Art Drawing 219/419 (maximum 6 hours); Art Painting 213, 214; Art Media Arts 231; Art Drawing 212.....	9	
<b><sup>1</sup>Studio Electives</b>		
Additional hours in studio courses to be completed in the School of Art or our affiliated facility, Arrowmont School of Arts and Crafts. Students may also apply a maximum of 6 hours of approved studio courses from Architecture, Art Education, Computer Science, Journalism and Electronic Media, Interior Design or Theatre. Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses .....		15
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>		
English 101*, 102* or their equivalent.....	6	
Quantitative Reasoning (2 courses)* .....	6	
Natural Sciences (2 courses; at least one with laboratory)* .....	7	
Social Sciences (2 courses)* .....	6	
Cultures and Civilizations (2 courses)* .....	6	
Communicating through Writing* .....	0-3	
Communicating Orally* .....	0-3	
<hr/> Total 120-126		

\*Meets University General Education Requirement.

<sup>1</sup>Students electing an additional major in Art Education and licensure to teach in schools K-12 may apply 13 hours in undergraduate Art Education courses.

## REVISE REQUIREMENTS FOR BACHELOR OF FINE ARTS · GRAPHIC DESIGN MAJOR

- On page 93 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, change first sentence, second paragraph to A minimum of 120 hours are required.
- On Page 93 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> Column, B.F.A Graphic Design Major revise to meet University General Education requirements and to reduce to 120 hours.

**Requirements for the Bachelor of Fine Arts · Graphic Design Major**

<b>Art Core</b>	<b>Hours Credit</b>
Art 101, 103, 295 .....	9
Art History 172*, 173* .....	6
Art Drawing 211 .....	3
<b>Graphic Design</b>	
Art Graphic Design 251, 252, 351, 352, 356, 451, 452, 455 (in sequence).....	24
Art Graphic Design 350 Portfolio Review (Satisfactory/No Credit grading) .....	0
Art Graphic Design 444 (maximum 6 hours) and/or 456 .....	8
<b>Required Design and Professional</b>	
Art Graphic Design 405.....	3
Art Graphic Design 400.....	3
Art Graphic Design 450.....	3
Art Graphic Design 254, 256, 259, 354, 396, 405, 450, 453, 454, 459 (choose one).....	3
<b>Required Studio</b>	
Art Drawing 212; Art Painting 213 (or 215); Art Media Arts 231 .....	9
<b>Art History</b>	
Electives (one course must be writing emphasis).....	6
<b>Studio Electives</b>	
Students must choose a total of 9 hours:	
Art Ceramics, Art Drawing, Art Media Arts, Art Painting, Art Printmaking, Art Sculpture .....	9
<b>General Curriculum (consult University General Education Requirement for appropriate choices within each category)</b>	
English 101*, 102* or their equivalent.....	6
Quantitative Reasoning (2 courses)* .....	6
Natural Sciences (2 courses; at least one with laboratory)* .....	7
Social Sciences (2 courses)* .....	6
Cultures and Civilizations (2 courses)* .....	6
Arts and Sciences Non-Art Elective .....	3
Communicating through Writing* .....	0-3
Communicating Orally* .....	0-3
<hr/> Total 120-126 <hr/>	

\*Meets University General Education Requirement.

## REVISE ART HISTORY MAJOR

- On Page 93 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> Column, Art History Major, 1<sup>st</sup> Paragraph, revise to
  1. eliminate 3 credit hours of art history electives from the Art History Major, reducing art history elective hours from 9 to 6;
  2. add Art History 454, Theory of Baroque Art; Art History 416, Chinese Art of the 20<sup>th</sup> and 21<sup>st</sup> Century; and Art History 464 Oceanic Art to appropriate categories in "Art History Courses numbered 300 and above;"
  3. change Museology I title.

**Requirements for the Bachelor of Arts • Art History Major**

	Hours Credit
<b>Prerequisites:</b>	
Art History 172, 173, and 162 or 183 (or their Honors equivalents) with a grade of C or better.....	9
<b>Major:</b>	
Art History courses numbered 300 and above.....	18
Students are required to take at least one course in four of the following areas:	
• <b>Medieval/Early Renaissance</b> Art History 425, 431, 441, 451	
• <b>Renaissance/Baroque</b> Art History 442, 452, 453, 454	
• <b>American</b> Art History 471, 472, 473, 483	
• <b>19th/20th Century</b> Art History 403, 472, 474, 475, 476; Art Media Arts 433	
• <b>Non-Western</b> Art History 411, 415, 416, 419, 461, 462, 463, 464	
6 Art History elective hours or from courses in the Departments of Classics, Religious Studies, or School of Architecture in consultation with departmental advisor.	
Art 481 (Museum Studies I: Museums, Purpose, and Function) .....	3
Art History 376 (Seminar in Art History).....	3
Studio courses numbered 200 and above .....	3
	Total 36

**DEPARTMENT OF AUDIOLOGY AND SPEECH PATHOLOGY**

## REVISE REQUIREMENT FOR PROFESSIONAL CERTIFICATION

- On page 94 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, delete the 3rd paragraph (just prior to “Audiology Major”) and replace with the following:

Additional requirements for professional certification in Audiology and Speech Pathology include at least six semester hours in behavioral and/or social sciences which pertain to the understanding of normal / abnormal behavior and at least one course in each of the following areas: biological sciences, physical sciences, and mathematics. Students majoring in both Audiology and Speech Pathology are strongly encouraged to consult with the department undergraduate advisor before selecting elective courses.

**DIVISION OF BIOLOGY**

## REVISE BIOLOGICAL SCIENCES MAJOR – PREREQUISITES TO ALL CONCENTRATIONS

- On Page 95 of the 2004-2005 Undergraduate Catalog, 1st Column, Biological Sciences Major, Prerequisites to All Concentrations, revise to

**Prerequisites to All Concentrations**

Chemistry 120-130; Physics 221-222; Mathematics 141-142 or 151-152; Biology 111-112 or 130; Biology 140-240-250

## REVISE BIOLOGICAL SCIENCES MAJOR – PROGRESSION REQUIREMENTS

- On Page 95 of the 2004-2005 Undergraduate Catalog, 1st Column, Biological Sciences Major, Progression Requirements, revise to

**Progression Requirements**

Students may declare a Biological Sciences Major after completing the prerequisites Chemistry 120-130, and Biology 111-112 or 130 courses with at least a 2.5 GPA in those courses. A cumulative 2.5 GPA is required to declare and to continue in the major.

## REVISE MINOR IN BIOLOGICAL SCIENCES

- On Page 95 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> Column, Minor in Biological Sciences, revise to

**Minor in Biological Sciences**

A minor in the Biological Sciences consists of 16 hours. Prerequisites are Biology 111-112 or 130, 140; and Chemistry 120-130. Requirements are Biology 240 and 250; and at least 8 hours chosen from 300- and 400-level courses in Biochemistry, Cellular and Molecular Biology; Ecology and Evolutionary Biology; and Microbiology. In meeting the upper-division minimum requirement not more than 6 hours may be credited from any one biological science department, and not more than 3 hours of undergraduate research may be credited.

## REVISE BIOLOGICAL SCIENCES MAJOR · BIOCHEMISTRY AND CELLULAR AND MOLECULAR BIOLOGY CONCENTRATION

- On page 95 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Biochemistry and Cellular and Molecular Biology Concentration, 1<sup>st</sup> bullet, revise to
- At least 16 additional credit hours selected from biochemistry and cellular and molecular biology courses numbered 300 or above (except Biochemistry and Cellular and Molecular Biology 310, 457) or from the following courses in other departments: Microbiology 310-319, 410, 411, 420-429, 430, 440; Ecology and Evolutionary Biology 350, 360, 460.
- On page 95 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Biochemistry and Cellular and Molecular Biology Concentration, 3<sup>rd</sup> bullet, revise to
- At least three of the 16 credit hours must be selected from the following physiology courses: Biochemistry and Cellular and Molecular Biology 321, 440, and Microbiology 310. No more than 9 of the 16 credit hours may be in non-Biochemistry and Cellular and Molecular Biology courses.

## REVISE BIOLOGICAL SCIENCES MAJOR · ECOLOGY AND EVOLUTIONARY BIOLOGY CONCENTRATION

- On pages 95-96 of 2004-2005 Undergraduate Catalog, Ecology and Evolutionary Biology Concentration, revise to

The concentration consists of 32 hours:

- Chemistry 350

While not required, Chemistry 360-369 is recommended for students that plan to pursue medical professions and the following disciplines within ecology and evolutionary biology: physiological ecology, chemical ecology, environmental toxicology and molecular evolution and systematics. Chemistry 360-369 can be applied to the Ecology and Evolutionary Biology upper-division requirements and are listed under the Physiology/Chemical Ecology category below.

- Quantitative Requirement: Statistics 201 or Statistics 251 and one course from (note prerequisites in parentheses): Math 231 (Prereq. Math 141-142); Math 251 (Prereq. Math 141-142); Math 405 (Prereq. Math 141-142 or 151-152); Statistics 320 (Prereq. Statistics 201); Statistics 330 (Prereq. Statistics 201).

Mathematics 141-142 OR 151-152 can be used to satisfy EEB requirements. However, Mathematics 141-142 is recommended for students with a strong interest in quantitative ecology and is prerequisite to several courses that satisfy the Ecology and Evolutionary Biology Quantitative Requirement.

- Upper-Division courses: A total of 24 additional hours is required at the 300 level or above to include at least 15 Hours from Ecology and Evolutionary Biology, and at least one course from each of the following categories:

Evolution—Ecology and Evolutionary Biology 410, 455\*, 460, 495\*

Ecology—Ecology and Evolutionary Biology 433\*, 446\*, 470\*, 484; Microbiology 470.

Organismal Biology—Ecology and Evolutionary Biology 330, 360\*, 380\*, 414, 450, 459\*, 461\*, 474\*

Physiology/Chemical Ecology—Ecology and Evolutionary Biology 321; Biochemistry and Cellular and Molecular Biology 310, 415, 416\*, 419\*, 440; Chemistry 360, 369\*; Microbiology 310, 319\*.

\* courses with lab or field component

- The remaining hours for the Ecology and Evolutionary Biology concentration can include any of the remaining Ecology and Evolutionary Biology courses on the above lists, other Ecology and Evolutionary Biology upper-division courses and appropriate upper-division courses offered by the following departments: Anthropology; Earth and Planetary Sciences; Forestry, Wildlife and Fisheries; Geography; Microbiology; Plant and Soil Sciences. A list of approved appropriate courses may be obtained from the office of either the Division of Biology or Ecology and

Evolutionary Biology or from the Department of Ecology and Evolutionary Biology's Webpage. Other courses, related to the student's determined interests, may be approved by petition to the Department of Ecology and Evolutionary Biology and the Division. Courses applied to the major must include at least 4 hours at the 400-level and one laboratory or field course.

#### REVISE BIOLOGICAL SCIENCES MAJOR · MICROBIOLOGY CONCENTRATION

- On page 96 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Microbiology Concentration, revise to  
The concentration consists of 34 hours including Chemistry 350-360-369, Biochemistry and Cellular and Molecular Biology 401, Microbiology 310-319, 320-329, and 12 additional hours of 400-level microbiology courses.

#### REVISE BIOLOGICAL SCIENCES MAJOR · PLANT BIOLOGY CONCENTRATION

- On Page 96 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Plant Biology Concentration, 2<sup>nd</sup> bullet, revise to
  - The following courses: Biochemistry and Cellular and Molecular Biology 321; Ecology and Evolutionary Biology 330, 400, 410, 490; plus 9 additional hours of other upper-division courses offered by life science departments (except Biochemistry and Cellular and Molecular Biology 306, Ecology and Evolutionary Biology 304, 309).
- On page 96 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Plant Biology Concentration, Honors Option, last sentence, revise to  
Students interested in pursuing an honors option should contact the Division of Biology office for details.

### DEPARTMENT OF BOTANY

#### ELIMINATE DEPARTMENT

- On page 96-97 of the 2004-2005 Undergraduate Catalog, Department of Botany, Delete entire department section.

### DEPARTMENT OF CLASSICS

#### REVISE CLASSICS MAJOR · CLASSICAL CIVILIZATION CONCENTRATION

- On page 99 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Classics Major, Classical Civilization Concentration, revise to  
The concentration in classical civilization consists of 27 hours. The required core of the major is Classics 201 plus any 9 hours drawn from the following: Classics 221-222 (3-3), Classics 232 (3), Classics 253 (3). The remaining 15 hours may be drawn from Classics 261-264, 251-252, any Classics course numbered 300 or above, History 366, or Philosophy 320. Students are encouraged to satisfy the foreign language requirement with Greek or Latin.

#### REVISE MINOR IN CLASSICAL CIVILIZATION

- On page 99 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Minor in Classical Civilization, revise to  
A minor in classical civilization consists of 18 hours including Classics 201 plus any 6 hours drawn from the following: Classics 221-222, 232, 253. The remaining 9 hours may be drawn from Classics 261-264, 251-252, any Classics course numbered 300 or above, History 366, or Philosophy 320.

#### REVISE CLASSICS MAJOR · GREEK CONCENTRATION

- On page 99 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Greek Concentration, revise to  
The concentration in Greek consists of 27 hours including 18 hours of Greek language courses numbered above 200, plus 9 hours to be drawn from any courses in the Classics Department (other than Classics 121-122, 201, or 273).

## REVISE CLASSICS MAJOR · LATIN CONCENTRATION

- On page 99 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Latin Concentration, revise to  
The concentration in Latin consists of 27 hours including 18 hours of Latin language courses numbered above 200 plus 9 hours to be drawn from any courses in the Classics Department (other than Classics 111-112, 150, 201, or 273).

**INTERDISCIPLINARY PROGRAMS**

## REVISE INTERDISCIPLINARY PROGRAMS MAJOR · ENVIRONMENTAL STUDIES CONCENTRATION

- On page 106 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Interdisciplinary Programs Major, Environmental Studies, revise first bullet to
  - The core includes: (a) 15 hours from Geography 345, Sociology 360 or 464 or 465 (one only), Philosophy 246, Economics 462 or Agricultural Economics 470 (one only), Agriculture and Natural Resources 333, Journalism 451, Geology 490; (b) 3 hours from Geology 455 or Ecology and Evolutionary Biology 484; (c) 3 hours from Geography 334, Geography 434, Environmental and Soil Sciences 462, Geography 433, or Geography 436.

## REVISE INTERDISCIPLINARY PROGRAMS MAJOR · LEGAL STUDIES CONCENTRATION

- On Page 108 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> Column, last paragraph, revise last bullet to
  - Issues—6 hours from Journalism and Electronic Media 400, Political Science 431, Communication Studies 469, Women's Studies 340.

## REVISE INTERDISCIPLINARY PROGRAMS MAJOR · URBAN STUDIES CONCENTRATION

- On page 109 of the 2004-2005 Undergraduate Catalog, Urban Studies Concentration, revise 2<sup>nd</sup> sentence to  
Faculty from architecture, geography, history, political science, sociology, and business participate in the program which has variable emphases from the relationship of the individual to the environment, the process of problem solving in an urban context, or the nature of current urban issues.
- On page 109 of the 2004-2005 Undergraduate Catalog, Urban Studies Concentration, revise bulleted list to
  - Group 1 – History and Theory: Economics 361, Urban Studies 411, 441
  - Group 2 – Physical Issues and Design: Architecture 420, Urban Studies 442, 464
  - Group 3 – Planning and Policy: Political Science 446, Urban Studies 280, 321, 412
- On page 109 of the 2004-2005 Undergraduate Catalog, Urban Studies Concentration, last paragraph before minor, revise list of approved courses to  
African and African-American Studies 480; Architecture 401, 402, 403, 404; Classics 436; Economics 323, 462, 471, 472; Finance 485; Geography 310, 411, 412, 449; Marketing 310; Political Science 340; Sociology 340, 343, 344, 345, 360, 442, 462; Communication Studies 420; Statistics 201; Urban Studies 200, 450, 485, 493.

**DEPARTMENT OF MATHEMATICS**

REVISE MATHEMATICS CAREER SAMPLE SHOWCASES

- On page 111 of the 2004-05 Undergraduate Catalog, 1<sup>st</sup> column, beginning with paragraph after bulleted list, revise to  
 There are many careers one can pursue with a mathematics major. Sample programs for four different goals are listed below. Additional information is available in the Mathematics Department Office.

**INDUSTRIAL EMPLOYMENT**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
Mathematics 141-142 (or 147-148) and 171.....	11	
English Composition .....	6	
Foreign Language .....	6	
Lab Science Distribution Requirement.....	8	
<b>Sophomore</b>		
Mathematics 231, 241 (or 247), 251 (or 257), and 300 .....	13	
Non-U.S. History Distribution Requirement .....	6	
Social Science Distribution Requirement.....	3	
Foreign Language (completion of secondary level) .....	3	
Science Distribution Requirement.....	3	
Elective .....	3	
<b>Junior</b>		
Mathematics 351, 431 (or 435), 341, 371 .....	12	
Humanities Distribution Requirement .....	6	
Social Science Distribution Requirement.....	3	
Electives.....	12	
<b>Senior</b>		
Mathematics 471-472, 423, 475 .....	12	
Upper-Level Distribution Requirement.....	6	
Oral Communication Requirement.....	1-3	
Electives.....	4-6	
<b>Total</b>		<b>120 minimum</b>

**PREPARATION FOR GRADUATE SCHOOL**

<b>Freshman</b>	<b>Hours Credit</b>
Mathematics 141-142 (or 147-148) and 171.....	11
English Composition .....	6
Foreign Language (beginning level, preferably French, German, or Russian).....	6
Lab Science Distribution Requirement.....	8
<b>Sophomore</b>	
Mathematics 231, 247, 257, and 300.....	13
Non-U.S. History Distribution Requirement .....	6
Social Science Distribution Requirement.....	3
Foreign Language (completion of secondary level).....	3
Science Distribution Requirement.....	3
Elective .....	3
<b>Junior</b>	
Upper-Division Mathematics Courses.....	12
Humanities Distribution Requirement .....	6
Social Science Distribution Requirement.....	3
Electives.....	12
<b>Senior</b>	
Upper-Division Math Sequence (possibly Honors) .....	6
Honors Upper-Division Math Sequence.....	6
Upper-Level Distribution Requirement.....	6
Oral Communication Requirement.....	1-3
Electives.....	4-6
<hr/> Total 120 minimum	

**SECONDARY EDUCATION**

<b>Freshman</b>	<b>Hours Credit</b>
Mathematics 141-142 (or 147-148) and 171.....	11
English Composition .....	6
Foreign Language .....	6
Lab Science Distribution Requirement.....	8
<b>Sophomore</b>	
Mathematics 231, 241 (or 247), 251 (or 257), and 300 .....	13
Non-U.S. History Distribution Requirement .....	6
Social Science Distribution Requirement.....	3
Foreign Language (completion of secondary level).....	3
Science Distribution Requirement.....	3
Elective .....	0-2
<b>Junior</b>	
Mathematics 323, 351, 341, 371, 400.....	15
Humanities Distribution Requirement .....	6
Social Sciences Distribution Requirement.....	3
Educational Psychology 210.....	3
<b>Senior</b>	
Mathematics 445-446, 460, 421 (or 411, 431).....	12
Upper-Level Distribution Requirement.....	6
Cultural Studies in Education 400.....	2
Oral Communication Requirement.....	1-3
Educational Psychology 401 .....	2
Special Education 402 .....	2
Theory and Practice in Teacher Education 352 (1), 335 (3).....	4
Instructional Technology 486 .....	3
<hr/> Total 120 minimum	



## ADD ACCELERATED/5TH YEAR MASTER OF SCIENCE TEXT AND SAMPLE SHOWCASE

- On page 112 of the 2004-05 Undergraduate Catalog, 1<sup>st</sup> column, delete last paragraph before Minor in Mathematics and add the following

**5TH YEAR MASTER OF SCIENCE IN MATHEMATICS**

Students may earn a Bachelor of Science and a Master of Science in mathematics in five years as follows. (See the Graduate Catalog for more information on the Master of Science degree.) Please note that admission as a graduate student must be obtained prior to the beginning of the fifth year.

- Complete a total of 129 hours, including 99 hours of undergraduate credit prior to the senior year and no more than 15 hours per semester in the senior year.
- Do not complete the requirements for an undergraduate degree prior to the end of the senior year (for example, postpone one upper-level distribution requirement until the last semester of the senior year).
- Complete an additional 9 hours of 400 or 500-level mathematics courses for graduate credit by submitting a "Senior Requesting Graduate Credit" form and obtaining Senior Privilege through the Office of Graduate Student Services (requires a 3.0 cumulative GPA). These courses must be taken in the senior year and may not be used to fill any requirements for the undergraduate mathematics major.
- In the fifth year, complete 9 hours per semester of graduate courses fulfilling the requirements for a Master of Science degree, including two graduate sequences and Master of Science project.
- Complete 3 graduate hours during the summer preceding or following the fifth year.

The Mathematics Department awards graduate assistantships each year. The assistantship pays graduate tuition, as well as a stipend for living expenses. Students who fill all requirements of the mathematics honors program will be given priority for a graduate teaching assistantship from the UT Mathematics Department beginning in the academic year following award of the Bachelor of Science degree.

**ACCELERATED/5TH YEAR MS**

<b>Freshman</b>	<b>Hours Credit</b>
Mathematics 147-148 and 300 .....	11
English Composition .....	6
Foreign Language (preferably French, German, or Russian) .....	6
Lab Science Distribution Requirement .....	8
Social Science Distribution Requirement .....	3
<b>Sophomore</b>	
Mathematics 171, 231, 247, 257 .....	12
Upper-Division Mathematics Courses .....	9
Non-U.S. History Distribution Requirement .....	6
Foreign Language .....	3
Science Distribution Requirement .....	3
<b>Junior</b>	
Upper-Division Math Sequence (possibly honors) .....	6
Honors Upper-Division or Graduate Math Sequence .....	6
Humanities Distribution Requirement .....	6
Social Science Distribution Requirement .....	3
Upper-Level Distribution Requirement .....	3
Electives .....	2
<b>Senior</b>	
Upper-Division Honors or Graduate Math Sequences .....	12
Upper-Level Distribution Requirement .....	3
Oral Communication Requirement .....	1-3
Electives .....	9-11
<hr/>	
<b>Total</b>	<b>120 minimum</b>

**DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES**

## REVISE FRENCH MAJOR

DROP: LANGUAGE CONCENTRATION

DROP: LITERATURE CONCENTRATION

- On page 113 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, French Major, Delete whole section titled FRENCH MAJOR and replace with the following:

**FRENCH MAJOR**

The French major consists of 30 hours in courses numbered 333 and above. (French 300 does not count toward the major, but is recommended for students needing grammar review.) All majors must have the following courses (or their equivalent with consent of the department): 333-334; 351-352; 421; 422; 440; one 3-hour literature course at the 400 level; 6 additional hours of French courses at the 300 or 400 level. Advanced students may substitute a 400-level course for either 333 or 334, with consent of the French faculty.

## REVISE FRENCH MINOR

- On page 115 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Minors, 2<sup>nd</sup> bullet, revise to
- The **French minor** consists of 18 hours in courses numbered 333 and above, distributed as follows: 333; 351-352; 421; plus six hours of electives at the 300 or 400 level. French 300 does not count toward the minor, but is recommended for students needing grammar review.

## REVISE INTERDISCIPLINARY PROGRAMS MAJOR · CONCENTRATION IN LANGUAGE AND WORLD BUSINESS—JAPANESE

- On page 115 of the 2004-2005 Undergraduate catalog, 1<sup>st</sup> column, Language Requirements, 5<sup>th</sup> bullet, revise to
- The **Japanese concentration** consists of 30 hours. The following are required: Japanese 251, 252, 351, 352, 451, 452, three hours of Asian languages 490 or 491, and 1 of the following: Japanese 313, 314, or 413.

## REVISE LANGUAGE AND WORLD BUSINESS CONCENTRATION – PROFESSIONAL EMPHASIS REQUIREMENT

- On page 115 of the 2004 to 2005 Undergraduate Catalog, 1<sup>st</sup> column, B. Professional Emphasis, Delete whole section and replace with the following:
- B. Professional Emphasis**
- International Business students will complete 27 hours, which includes the following courses: Accounting 200, Economics 201, Business Administration 201, Statistics 201, Finance 301, Marketing 300, Economics 313 or 323, and Management 472. All upper-division (300 level or above) coursework must be taken at The University of Tennessee unless otherwise approved by College of Business Administration and the Director of the Language and World Business program. Students are responsible for meeting all prerequisites for business courses. [For instance, Mathematics 125 or 141 is a prerequisite to Statistics 201, and Business Administration 101 is a prerequisite to Business Administration 201.] Students should consult their catalogs and advisors to ensure that all prerequisites are met.
  - International Retail Merchandising students will take 26 hours. The following are required: Accounting 200, Business Administration 201, Marketing 300, Retail and Consumer Sciences 210, 310, 421, and six additional credit hours from the following: Retail and Consumer Sciences 410, 411, 412, 415, 493. Students are responsible for meeting all prerequisites for business courses. Students should consult their catalogs and advisors to ensure that all prerequisites are met.
  - International Agricultural Economics students will complete 28 hours. The following are required: Accounting 200, Business Administration 201, Agricultural Economics 210, 320, 342, 350, 420, 430, and three credit hours from the following: Marketing 300, Management 300, 472, Finance 301. Students are responsible for meeting all prerequisites for business courses. Students should consult their catalogs and advisors to ensure that all prerequisites are met.

## REVISE RUSSIAN MAJOR

- On page 114 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Russian Major, revise to

The Russian major has two options—literary emphasis and area studies. Majors should prepare their programs in consultation with the departmental faculty advisor. Both options consist of 30 hours of courses and both require Russian 311-312 and 401-402.

## REVISE RUSSIAN MAJOR · LITERARY EMPHASIS OPTION

- On page 114 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Literary Emphasis Option, revise to

**Literary Emphasis Option**

The literary emphasis option requires Russian 451-452. Students may choose their remaining 12 hours from a group of courses that includes 221-222 and all courses numbered above 300.

## REVISE RUSSIAN MINOR

- On page 116 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, 4<sup>th</sup> bullet, revise to
- The **Russian minor** consists of at least 18 hours of Russian courses including 311-312, 401-402, and 6 hours chosen from 221-222 and courses numbered above 300.

**SCHOOL OF MUSIC**

## REVISE PROGRESSION REQUIREMENTS

- On page 116 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Progression Requirements, revise to

**PROGRESSION REQUIREMENTS**

All new music students (freshman and transfers) must perform an audition in applied music and take a music theory examination. No student officially progresses to major in music until the audition has been passed and the theory placement examination has been taken. The results of the audition and theory exam will determine the student's placement in applied music and theory. Both the audition and theory exam should be completed during a visit to the University prior to final arrival to begin classes. Applicants are urged to contact the School of Music to schedule appointments for satisfying both requirements as early as possible, but certainly no later than the summer orientation period.

**GENERAL REQUIREMENTS**

Students in the School of Music are required to consult the School of Music Undergraduate Handbook, available in Room 211 Music Building, for departmental policies and procedures pertaining to music degrees.

## REVISE APPLIED MUSIC REQUIREMENT

- On page 117 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, Applied Music, revise 1<sup>st</sup> three paragraphs to

**APPLIED MUSIC**

Applied study is classified as principal or secondary. Students studying their principal (major) instrument register for credit appropriate to their program, 1-3 credit hours; students studying a secondary instrument register for 1 hour of credit. Study at the principal level receives one hour of private instruction per week or a one-hour class lesson plus a half-hour private lesson. Determination of the mode of instruction rests with the department. Study at the secondary level receives one-half hour private instruction per week or its equivalent in class instruction. Applied music courses do not permit non-credit registration nor may students elect non-conventional grading.

Solo Class: All music majors are required to register for Music General 200: Solo Class every fall and spring they are enrolled in applied music, with the exception of the semester in which they are student teaching. The requirements for this course are to attend scheduled concerts, recitals, master classes, repertoire, and solo classes, and to perform at least once each semester as partial fulfillment of applied music credit requirement.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION CONCENTRATION · WIND/PERCUSSION EMPHASIS · 5-YEAR OPTION

**Requirements for the Bachelor of Music · Music Major · Music Education Concentration · Wind/Percussion Emphasis (5-year option)**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Performance (100 level) .....	2,2
Music General 200 .....	0,0
<sup>1</sup> Music Ensemble .....	1,1
Music Ensemble 359.....	1
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Education 230.....	1

Music Education 240 or 241 .....	1
Music Keyboard 110, 120 .....	1,1
<b>Sophomore</b>	
<sup>2</sup> Cultures and Civilizations* .....	3,3
Child and Family Studies 210* .....	3
Music Performance (200 level) .....	2,2
Music General 200 .....	0,0
<sup>1</sup> Music Ensemble .....	1,1
Music Ensemble 359 .....	1
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Education 210, 211 .....	1,1
Music Education 220, 221 .....	1,1
<b>Junior</b>	
<sup>3</sup> Communicating Orally* .....	3
Mathematics 115* .....	3
<sup>4</sup> Natural Sciences* .....	4
Music Performance (200 or 300 level) .....	2,2
Music General 200 .....	0,0
<sup>1</sup> Music Ensemble .....	1,1
Music Ensemble 359 .....	1
Music Theory 320 .....	2
Musicology 380* .....	3
Music Education 350 .....	1,1
Music Education 310, 320 .....	3,2
Music Education 200 .....	1
Music Education 212 .....	1
Instructional Technology 486 .....	3
<b>Senior</b>	
<sup>5</sup> Social Sciences* .....	3
<sup>4</sup> Natural Sciences* .....	3
<sup>6</sup> Quantitative Reasoning* .....	3
Music Performance (300 or 400 level) .....	2,2
Music General 200 .....	0,0
<sup>1</sup> Music Ensemble .....	1,1
Music General 301 .....	0
Music Education 340 .....	3
Music Education 420 .....	3
Music Education 430 .....	3
Music Education 440 .....	2
Cultural Studies in Education 400 .....	2
Educational Psychology 401 .....	2
Special Education 402 .....	2
<b>Internship Year</b>	
Music Education 575 .....	8,4
Music Education 574 .....	2
Music Education 591 .....	4
Electives in Music Education or Music .....	6
Total 128 plus 24 graduate	

\*Meets University General Education Requirement.

<sup>1</sup>Chosen from Music Ensemble 350, 352, 353.

<sup>2</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>3</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>4</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>5</sup>See Social Sciences list – University General Education Requirement.

<sup>6</sup>See Quantitative Reasoning list – University General Education Requirement.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION CONCENTRATION · WIND/PERCUSSION EMPHASIS · 4-YEAR ALTERNATIVE

**Requirements for the Bachelor of Music · Music Major · Music Education Concentration · Wind/Percussion Emphasis (4-year alternative)**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3,3	
Music Performance (100 level) .....	2,2	
Music General 200 .....	0,0	
<sup>1</sup> Music Ensemble .....	1,1	
Music Ensemble 359 .....	1	
Music Theory 110, 120 .....	3,3	
Music Theory 130, 140 .....	1,1	
Musicology 110* .....	3	
Music Education 230 .....	1	
Music Education 240 or 241 .....	1	
Music Keyboard 110, 120 .....	1,1	
<b>Sophomore</b>		
<sup>2</sup> Cultures and Civilizations* .....	3,3	
Child and Family Studies 210* .....	3	
Music Performance (200 level) .....	2,2	
Music General 200 .....	0,0	
<sup>1</sup> Music Ensemble .....	1,1	
Music Ensemble 359 .....	1	
Music Theory 210, 220 .....	3,3	
Music Theory 230, 240 .....	1,1	
Musicology 210*, 220* .....	3,3	
Music Education 210, 211 .....	1,1	
Music Education 220, 221 .....	1,1	
<b>Junior</b>		
<sup>3</sup> Communicating Orally* .....	3	
Mathematics 115* .....	3	
<sup>4</sup> Natural Sciences* .....	4	
Music Performance (200 or 300 level) .....	2,2	
Music General 200 .....	0,0	
<sup>1</sup> Music Ensemble .....	1,1	
Music Ensemble 359 .....	1	
Music Theory 320 .....	2	
Musicology 380* .....	3	
Music Education 350 .....	1,1	
Music Education 310, 320 .....	3,2	
Music Education 200 .....	1	
Music Education 212 .....	1	
Instructional Technology 486 .....	3	
<b>Senior</b>		
<sup>5</sup> Social Sciences* .....	3	
<sup>4</sup> Natural Sciences* .....	3	
<sup>6</sup> Quantitative Reasoning* .....	3	
Music Performance (300 or 400 level) .....	2	
Music General 200 .....	0	
<sup>1</sup> Music Ensemble .....	1	
Music General 301 .....	0	
Music Education 340 .....	3	
Music Education 420 .....	3	
Music Education 430 .....	3	
Music Education 440 .....	2	
Cultural Studies in Education 400 .....	2	
Educational Psychology 401 .....	2	
Special Education 402 .....	2	
Music Education 400 .....	12	
Music Education 401 .....	0	
<b>Total</b>		<b>137</b>

\*Meets University General Education Requirement.

<sup>1</sup>Chosen from Music Ensemble 350, 352, 353.

<sup>2</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.  
<sup>3</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.  
<sup>4</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.  
<sup>5</sup>See Social Sciences list – University General Education Requirement.  
<sup>6</sup>See Quantitative Reasoning list – University General Education Requirement.

REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION CONCENTRATION · STRING EMPHASIS (5-YEAR OPTION)

**Requirements for the Bachelor of Music · Music Major · Music Education Concentration · String Emphasis (5-year option)**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Performance (100 level) .....	2,2
Music General 200 .....	0,0
Music Ensemble 370.....	1,1
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Education 240, 241 .....	1,1
Music Keyboard 110, 120 .....	1,1
<b>Sophomore</b>	
<sup>1</sup> Cultures and Civilizations* .....	3,3
Child and Family Studies 210* .....	3
Music Performance (200 level) .....	2,2
Music General 200 .....	0,0
Music Ensemble 370.....	1,1
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Education 210.....	1
Music Education 220.....	1
<b>Junior</b>	
<sup>2</sup> Communicating Orally* .....	3
Mathematics 115* .....	3
<sup>3</sup> Natural Sciences* .....	4
Music Performance (200 or 300 level) .....	2,2
Music General 200 .....	0,0
Music Ensemble 370.....	1,1
Music Theory 320 .....	2
Music Ensemble 315.....	1,1
Musicology 380*.....	3
Music Education 230.....	1
Music Education 350.....	1,1
Music Education 310, 320.....	3,2
Music Education 200.....	1
Instructional Technology 486 .....	3
<b>Senior</b>	
<sup>4</sup> Social Sciences* .....	3
<sup>3</sup> Natural Sciences* .....	3
<sup>5</sup> Quantitative Reasoning* .....	3
Music Performance (300 or 400 level) .....	2,2
Music General 200 .....	0,0
Music Ensemble 370.....	1,1
Music General 301 .....	0
Music Education 340.....	3
Music Education 420.....	3
Music Education 430.....	3
Music Education 441 .....	2
Cultural Studies in Education 400.....	2
Educational Psychology 401 .....	2
Special Education 402 .....	2
<b>Internship Year</b>	
Music Education 575.....	8,4

Music Education 574.....	2
Music Education 591.....	4
Electives in Music Education or Music.....	6
<hr/>	
Total 125 plus 24 graduate	

\*Meets University General Education Requirement.

<sup>1</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>2</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>3</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>4</sup>See Social Sciences – University General Education Requirement.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement.

#### REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION CONCENTRATION · STRING EMPHASIS · 4-YEAR ALTERNATIVE

#### Requirements for the Bachelor of Music · Music Major · Music Education Concentration · String Emphasis (4-year alternative)

Freshman	Hours Credit
English 101*, 102* .....	3,3
Music Performance (100 level) .....	2,2
Music General 200.....	0,0
Music Ensemble 370.....	1,1
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Education 240, 241.....	1,1
Music Keyboard 110, 120 .....	1,1
<b>Sophomore</b>	
<sup>1</sup> Cultures and Civilizations*.....	3,3
Child and Family Studies 210*.....	3
Music Performance (200 level) .....	2,2
Music General 200.....	0,0
Music Ensemble 370.....	1,1
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210* 220* .....	3,3
Music Education 210.....	1
Music Education 220.....	1
<b>Junior</b>	
<sup>2</sup> Communicating Orally* .....	3
Mathematics 115* .....	3
<sup>3</sup> Natural Sciences* .....	4
Music Performance (200 or 300 level) .....	2,2
Music General 200.....	0,0
Music Ensemble 370.....	1,1
Music Ensemble 315.....	1,1
Music Theory 320 .....	2
Musicology 380*.....	3
Music Education 230.....	1
Music Education 350.....	1,1
Music Education 310, 320.....	3,2
Music Education 200.....	1
Instructional Technology 486 .....	3
<b>Senior</b>	
<sup>4</sup> Social Sciences* .....	3
<sup>3</sup> Natural Sciences* .....	3
<sup>5</sup> Quantitative Reasoning*.....	3
Music Performance (300 or 400 level) .....	2
Music General 200.....	0
Music Ensemble 370.....	1
Music General 301 .....	0
Music Education 340.....	3
Music Education 420.....	3

Music Education 430.....	3
Music Education 441.....	2
Cultural Studies in Education 400.....	2
Educational Psychology 401.....	2
Special Education 402.....	2
Music Education 400.....	12
Music Education 401.....	0
<hr/>	
Total	134

\*Meets University General Education Requirement.

<sup>1</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>2</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>3</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>4</sup>See Social Sciences list – University General Education Requirement.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement.

REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION - VOCAL/GENERAL CONCENTRATION · KEYBOARD EMPHASIS · 5-YEAR OPTION

**Requirements for the Bachelor of Music · Music Major · Music Education - Vocal/General Concentration · Keyboard Emphasis (5-year option)**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3,3	
<sup>1</sup> Communicating Orally* .....	3	
Music Performance (100-level Keyboard).....	2,2	
Music Performance 155, 156 or Music Voice 110 .....	1,1	
Music General 200.....	0,0	
Music Ensemble.....	1,1	
Music Theory 110, 120 .....	3,3	
Music Theory 130, 140 .....	1,1	
Musicology 110 * .....	3	
Music Education 240 or 241 .....	1	
<b>Sophomore</b>		
<sup>2</sup> Cultures and Civilizations* .....	3,3	
Child and Family Studies 210* .....	3	
Music Performance (200-level Keyboard).....	2,2	
Music Performance 155, 156 or 255, 256 (Voice) .....	1,1	
Music General 200.....	0,0	
Music Ensemble.....	1,1	
Music Theory 210, 220 .....	3,3	
Music Theory 230, 240 .....	1,1	
Musicology 210*, 220* .....	3,3	
Music Education 200.....	1	
Music Education 201 .....	1	
<b>Junior</b>		
<sup>3</sup> Natural Sciences* .....	4	
Mathematics 115* .....	3	
Music Performance (200- or 300-level Keyboard) .....	2,2	
Music General 200.....	0,0	
Music Ensemble.....	1,1	
Music Theory 310 or 320 .....	2-3	
Music Theory 450 .....	2	
Musicology 380*.....	3	
Music Education 210 or 211 .....	1	
Music Education 250.....	1,1	
Music Education 310, 320.....	3,2	
Music Ensemble 399.....	1,1	
Music Voice 450.....	2	
Instructional Technology 486 .....	3	
<b>Senior</b>		
<sup>4</sup> Social Sciences .....	3	
<sup>3</sup> Natural Sciences* .....	3	
<sup>5</sup> Quantitative Reasoning* .....	3	



Music Performance (300 or 400 level) .....	2,2
Music General 200 .....	0,0
Music Ensemble.....	1,1
Music Education 200.....	1
Music Education 330.....	3
Music Education 350.....	1
Music Education 420.....	3
Music Education 430.....	3
Music General 301 .....	0
Cultural Studies in Education 400.....	2
Educational Psychology 401 .....	2
Special Education 402 .....	2
<b>Internship Year</b>	
Music Education 575.....	12
Music Education 574.....	2
Music Education 591.....	4
Electives in Music Education or Music.....	6
<b>Total</b>	<b>129-130 plus 24 graduate</b>

\*Meets University General Education Requirement.

<sup>1</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>2</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>3</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>4</sup>See Social Sciences list – University General Education Requirement.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement.

#### REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION - VOCAL/GENERAL CONCENTRATION · KEYBOARD EMPHASIS · 4-YEAR ALTERNATIVE

#### Requirements for the Bachelor of Music · Music Major · Music Education - Vocal/General Concentration · Keyboard Emphasis (4-year alternative)

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
<sup>1</sup> Communicating Orally* .....	3
Music Performance (100-level Keyboard).....	2,2
Music Performance 155, 156 or Music Voice 110 .....	1,1
Music General 200 .....	0,0
Music Ensemble.....	1,1
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Education 240 or 241 .....	1
<b>Sophomore</b>	
<sup>2</sup> Cultures and Civilizations* .....	3,3
Child and Family Studies 210* .....	3
Music Performance (200-level Keyboard).....	2,2
Music Performance 155, 156 or 255, 256 (Voice) .....	1,1
Music General 200.....	0,0
Music Ensemble.....	1,1
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Education 200.....	1
Music Education 201 .....	1
<b>Junior</b>	
<sup>3</sup> Natural Sciences* .....	4
Mathematics 115* .....	3
Music Performance (200 or 300 level) .....	2,2
Music General 200.....	0,0
Music Ensemble.....	1,1
Music Theory 310 or 320 .....	2-3
Music Theory 450 .....	2
Musicology 380*.....	3
Music Education 210 or 211 .....	1

Music Education 250.....	1,1
Music Education 310, 320.....	3,2
Music Ensemble 399.....	1,1
Music Voice 450.....	2
Instructional Technology 486.....	3
<b>Senior</b>	
<sup>3</sup> Natural Sciences*.....	3
<sup>4</sup> Quantitative Reasoning*.....	3
<sup>5</sup> Social Sciences*.....	3
Music Performance (300- or 400-level Keyboard).....	2
Music General 200.....	0
Music Ensemble.....	1
Music Education 200.....	1
Music Education 330.....	3
Music Education 350.....	1
Music Education 420.....	3
Music Education 430.....	3
Music General 301.....	0
Cultural Studies in Education 400.....	2
Educational Psychology 401.....	2
Special Education 402.....	2
Music Education 400.....	12
Music Education 401.....	0
<hr/>	
Total 138-139	

\*Meets University General Education Requirement.

<sup>1</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>2</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>3</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>4</sup>See Quantitative Reasoning list – University General Education Requirement.

<sup>5</sup>See Social Sciences list – University General Education Requirement.

#### REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION - VOCAL/GENERAL CONCENTRATION · VOCAL EMPHASIS · 5-YEAR OPTION

#### Requirements for the Bachelor of Music · Music Major · Music Education - Vocal/General Concentration · Vocal Emphasis (5-year option)

Freshman	Hours Credit
English 101*, 102*.....	3,3
<sup>1</sup> Communicating Orally*.....	3
Music Performance (100-level Voice).....	2,2
Music General 200.....	0,0
<sup>2</sup> Music Ensemble.....	1,1
Music Theory 110, 120.....	3,3
Music Theory 130, 140.....	1,1
Musicology 110*.....	3
Music Education 240 or 241.....	1
Music Keyboard 110, 120.....	1,1
<b>Sophomore</b>	
<sup>3</sup> Cultures and Civilizations*.....	3,3
Child and Family Studies 210*.....	3
Music Performance (200-level Voice).....	2,2
Music General 200.....	0,0
<sup>2</sup> Music Ensemble.....	1,1
Music Theory 210, 220.....	3,3
Music Theory 230, 240.....	1,1
Musicology 210*, 220*.....	3,3
Music Education 200.....	1
Music Education 201.....	1
Music Keyboard 210, 220.....	1,1
<b>Junior</b>	
<sup>4</sup> Natural Sciences*.....	4
Mathematics 115*.....	3
Music Performance (200- or 300- level Voice).....	2,2

Music General 200.....	0,0
<sup>2</sup> Music Ensemble.....	1,1
Music Theory 310 or 320.....	2-3
Music Theory 450.....	2
Musicology 380*.....	3
Music Education 210 or 211.....	1
Music Education 250.....	1,1
Music Education 310, 320.....	3,2
Music Voice 450.....	2
Instructional Technology 486.....	3
<b>Senior</b>	
<sup>4</sup> Natural Sciences*.....	3
<sup>5</sup> Quantitative Reasoning*.....	3
<sup>6</sup> Social Sciences*.....	3
Music Performance (300- or 400-level Voice).....	2,2
Music General 200.....	0,0
<sup>2</sup> Music Ensemble.....	1,1
Music Education 200.....	1
Music Education 330.....	3
Music Education 350.....	1
Music Education 420.....	3
Music Education 430.....	3
<sup>7</sup> Music General 301.....	0
Cultural Studies in Education 400.....	2
Educational Psychology 401.....	2
Special Education 402.....	2
<b>Internship Year</b>	
Music Education 575.....	12
Music Education 574.....	2
Music Education 591.....	4
Electives in Music Education or Music.....	6
Total 127-128 plus 24 graduate	

\*Meets University General Education Requirement.

<sup>1</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>2</sup>Music Ensemble 340 (1 hour). Remaining hours to be chosen from Music Ensemble 330, 380, 383, 389.

<sup>3</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>4</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement.

<sup>6</sup>See Social Sciences list – University General Education Requirement.

<sup>7</sup>Optional Full Recital with approval of major area.

REVISE BACHELOR OF MUSIC · MUSIC MAJOR · MUSIC EDUCATION - VOCAL/GENERAL CONCENTRATION · VOCAL EMPHASIS · 4-YEAR ALTERNATIVE

**Requirements for the Bachelor of Music · Music Major · Music Education - Vocal/General Concentration · Vocal Emphasis (4-year alternative)**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102*.....	3,3
<sup>1</sup> Communicating Orally*.....	3
Music Performance (100-level Voice).....	2,2
Music General 200.....	0,0
<sup>2</sup> Music Ensemble.....	1,1
Music Theory 110, 120.....	3,3
Music Theory 130, 140.....	1,1
Musicology 110*.....	3
Music Education 240 or 241.....	1
Music Keyboard 110, 120.....	1,1
<b>Sophomore</b>	
<sup>3</sup> Cultures and Civilizations*.....	3,3
Child and Family Studies 210*.....	3
Music Performance (200-level Voice).....	2,2
Music General 200.....	0,0
<sup>2</sup> Music Ensemble.....	1,1
Music Theory 210, 220.....	3,3

Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Education 200.....	1
Music Education 201.....	1
Music Keyboard 210, 220 .....	1,1
<b>Junior</b>	
<sup>4</sup> Natural Sciences* .....	4
Mathematics 115* .....	3
Music Performance (200- or 300-level Voice).....	2,2
Music General 200.....	0,0
<sup>2</sup> Music Ensemble .....	1,1
Music Theory 310 or 320 .....	2-3
Music Theory 450 .....	2
Musicology 380*.....	3
Music Education 210 or 211 .....	1
Music Education 250.....	1,1
Music Education 310, 320.....	3,2
Music Voice 450.....	2
Instructional Technology 486 .....	3
<b>Senior</b>	
<sup>4</sup> Natural Sciences* .....	3
<sup>5</sup> Quantitative Reasoning* .....	3
<sup>6</sup> Social Sciences* .....	3
Music Performance (300- or 400-level Voice).....	2
Music General 200.....	0
<sup>2</sup> Music Ensemble .....	1
Music Education 200.....	1
Music Education 330.....	3
Music Education 350.....	1
Music Education 420.....	3
Music Education 430.....	3
<sup>7</sup> Music General 301.....	0
Cultural Studies in Education 400.....	2
Educational Psychology 401 .....	2
Special Education 402 .....	2
Music Education 400.....	12
Music Education 401.....	0
<hr/> Total 136-137	

\*Meets University General Education Requirement.

<sup>1</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>2</sup>Music Ensemble 340 (1 hour). Remaining hours to be chosen from Music Ensemble 330, 380, 383, 389.

<sup>3</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>4</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement.

<sup>6</sup>See Social Sciences list – University General Education Requirement.

<sup>7</sup>Optional Full Recital with approval of major area.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · ORGAN CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Organ Concentration**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3,3	
Music Theory 110, 120 .....	3,3	
Music Theory 130, 140 .....	1,1	
Musicology 110* .....	3	
Music Performance 190 .....	3,3	
Music Ensemble.....	1,1	
Music General 200.....	0,0	
Foreign Language (200-level sequence)* .....	3,3	
<b>Sophomore</b>		
Music Theory 210, 220 .....	3,3	
Music Theory 230, 240 .....	1,1	
Musicology 210*, 220* .....	3,3	
Music Performance 290 .....	3,3	
Music Ensemble.....	1,1	
Music General 200.....	0,0	
Electives.....	2	
<sup>1</sup> Quantitative Reasoning* .....	3,3	
<b>Junior</b>		
Musicology 380*.....	3	
Music Theory 310 .....	3	
Music Performance 390 .....	3,3	
Music Keyboard 230 .....	1	
Music Keyboard. 410 .....	1	
Music Theory 430 .....	3	
Music Ensemble.....	1,1	
Music General 200.....	0,0	
Music General 301 .....	0	
<sup>2</sup> Social Sciences* .....	3,3	
Electives.....	3	
<sup>3</sup> Communicating Orally* .....	3	
<b>Senior Year</b>		
Music Education 310.....	3	
Music Keyboard 410 .....	1,1	
Electives.....	2	
Music Performance 490 .....	3,3	
Music Ensemble.....	1,1	
<sup>4</sup> Natural Sciences.....	4,3	
Music General 200.....	0,0	
Music General 401 .....	0	
Music Keyboard 460, 470 .....	3,3	
		<b>Total 120</b>

\*Meets University General Education Requirement.

<sup>1</sup>See Quantitative Reasoning list – University General Education Requirement. Select two courses from the list.

<sup>2</sup>See Social Sciences – University General Education Requirement. Select two courses from the list.

<sup>3</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>4</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · PIANO CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Piano Concentration**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3	3
Music Theory 110, 120 .....	3	3
Music Theory 130, 140 .....	1	1
Musicology 110* .....	3	
Music Performance 180 .....	3	3
Music Ensemble .....	1	1
Music General 200 .....	0	0
<sup>1</sup> Cultures and Civilizations* .....	6	
<b>Sophomore</b>		
Music Theory 210, 220 .....	3	3
Music Theory 230, 240 .....	1	1
Musicology 210*, 220* .....	3	3
Music Performance 280 .....	3	3
Music Ensemble 399 .....	1	1
Music General 200 .....	0	0
<sup>2</sup> Natural Sciences* .....	4	3
<sup>3</sup> Communicating Orally* .....	3	
<b>Junior</b>		
Musicology 380* .....	3	
Music Keyboard 420, 430 .....	3	3
Music Education 310 .....	3	
<sup>4</sup> Social Sciences* .....	3	3
Music Theory 310 .....	3	
Music Performance 380 .....	3	3
Music Ensemble 399 .....	1	1
Music General 200 .....	0	0
Music General 301 .....	0	0
<b>Senior</b>		
Music Keyboard 230 .....	1	
Music Keyboard 340 .....	3	
Music Performance 480 .....	3	3
Music Ensemble 399 .....	1	1
<sup>5</sup> Quantitative Reasoning* .....	3	3
Music General 200 .....	0	0
Music General 401 .....	0	0
Electives .....	10	
	<b>Total</b>	<b>120</b>

\*Meets University General Education Requirement.

<sup>1</sup>See Cultures and Civilizations – University General Education Requirement. Select two non-U.S. History courses on the list or two courses in a foreign language at the intermediate level.

<sup>2</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>3</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>4</sup>See Social Sciences – University General Education Requirement. Select two courses from the list.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · PIANO PEDAGOGY CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Piano Pedagogy Concentration**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3,3	
Music Theory 110, 120 .....	3,3	
Music Theory 130, 140 .....	1,1	
Musicology 110* .....	3	
Music Performance 180 .....	2,2	
Music General 200 .....	0,0	
<sup>1</sup> Cultures and Civilization* .....	3,3	
Music Ensemble.....	1,1	
<b>Sophomore</b>		
Music Theory 210, 220 .....	3,3	
Music Theory 230, 240 .....	1,1	
Musicology 210*, 220* .....	3,3	
Music Performance 280 .....	2,2	
Music General 200 .....	0,0	
<sup>2</sup> Natural Sciences* .....	4,3	
Music Ensemble 399.....	1,1	
Music Keyboard 340, 350 .....	3,3	
<b>Junior</b>		
Musicology 380* .....	3	
Psychology 110* .....	3	
<sup>3</sup> Social Sciences* .....	3	
Music Theory 310 .....	3	
Music Performance 380 .....	2,2	
Music Keyboard 480 .....	3	
Music Ensemble 399.....	1,1	
Music General 200 .....	0,0	
Music General 301 .....	0	
Music Keyboard 360, 370 .....	3,3	
Music Education 310.....	3	
<b>Senior</b>		
Music Keyboard 230 .....	1	
Music Keyboard 420, 430 .....	3,3	
Music Performance 480 .....	2,2	
Music Ensemble 399.....	1,1	
<sup>4</sup> Quantitative Reasoning* .....	3,3	
Music General 200 .....	0,0	
Music Keyboard 490, 491 .....	2,2	
Music General 401 .....	0	
<sup>5</sup> Communicating Orally* .....	3	
Electives.....	2	
<b>Total</b>	<b>120</b>	

\*Meets University General Education Requirement.

<sup>1</sup>See Cultures and Civilizations – University General Education Requirement. Select two non-U.S. History courses on the list or two courses in a foreign language at the intermediate level.

<sup>2</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>3</sup>See Social Sciences list – University General Education Requirement.

<sup>4</sup>See Quantitative Reasoning list – University General Education Requirement. Select two courses from the list.

<sup>5</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · SACRED MUSIC CONCENTRATION · ORGAN TRACK

**Requirements for the Bachelor of Music · Music Major · Sacred Music Concentration · Organ Track**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Ensemble.....	1,1
Music Performance 190 (Organ).....	2,2
Foreign Language (200-level sequence)* .....	3,3
Music General 200 .....	0,0
Music Voice 110 or Music Performance 155 .....	1,1
<b>Sophomore</b>	
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Performance 290 (Organ).....	2,2
Music Ensemble.....	1,1
Music Performance 155 (Voice).....	1,1
Music General 200.....	0,0
<sup>1</sup> Quantitative Reasoning* .....	3,3
Music Education 200.....	1
<b>Junior</b>	
<sup>2</sup> Social Sciences* .....	3
Musicology 380* .....	3
Music Theory 310 .....	3
Musicology 480 .....	3
Music Performance 390 (Organ).....	2,2
Music Ensemble.....	1,1
Music General 200 .....	0,0
Music General 301 .....	0
Music Education 310, 320.....	3,2
<sup>3</sup> Religious Studies .....	3
Music Keyboard 230 .....	1
Music Keyboard 410 .....	1
<sup>4</sup> Communicating Orally* .....	3
<b>Senior</b>	
Music Performance 490 .....	2,2
Music General 495 .....	3
Music Keyboard 410 .....	1,1
Music Keyboard 460,470 .....	3,3
Music Ensemble.....	1,1
Music General 200 .....	0,0
Music General 401 .....	0
<sup>5</sup> Natural Sciences* .....	4,3
<sup>2</sup> Social Sciences* .....	3
Electives.....	2
<b>Total</b>	<b>120</b>

\*Meets University General Education Requirement.

<sup>1</sup>See Quantitative Reasoning list – University General Education Requirement. Select two courses from the list.

<sup>2</sup>See Social Sciences list – University General Education Requirement.

<sup>3</sup>To be chosen from Religious Studies 101\*, 102\*, 232, 305, 311, 321, 322, 326, 351, 352, 355, 370, 425, 430.

<sup>4</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>5</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.



## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · SACRED MUSIC CONCENTRATION · PIANO TRACK

**Requirements for the Bachelor of Music · Music Major · Sacred Music Concentration · Piano Track**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3,3	
Music Theory 110, 120 .....	3,3	
Music Theory 130, 140 .....	1,1	
Musicology 110* .....	3	
Music Performance 189, 190 (Organ) .....	1,1	
<sup>1</sup> Music Ensemble .....	1,1	
Music Performance 180, 181 (Piano) .....	2,2	
Foreign Language (200-level sequence)* .....	3,3	
Music General 200 .....	0,0	
<b>Sophomore</b>		
<sup>2</sup> Quantitative Reasoning* .....	3,3	
Music Theory 210, 220 .....	3,3	
Music Theory 230, 240 .....	1,1	
Musicology 210*, 220* .....	3,3	
<sup>1</sup> Music Ensemble .....	1,1	
Music Performance 280, 281 (Piano) .....	2,2	
Music Performance 289, 290 (Organ) .....	1,1	
Music Keyboard 230 .....	1	
Music Keyboard 410 .....	1	
Music Education 200 .....	1	
Music General 200 .....	0,0	
<b>Junior</b>		
<sup>3</sup> Social Sciences* .....	3,3	
Musicology 380* .....	3	
Music Theory 310 .....	3	
Musicology 480 .....	3	
Music Performance 380, 381 (Piano) .....	2,2	
<sup>1</sup> Music Ensemble .....	1,1	
Music General 200 .....	0,0	
Music General 301 .....	0	
Music Education 310, 320 .....	3,2	
Music Performance 155, 156 or Music Voice 110,120 .....	1,1	
<sup>4</sup> Religious Studies .....	3	
<b>Senior</b>		
<sup>5</sup> Natural Sciences* .....	4,3	
<sup>6</sup> Communicating Orally* .....	3	
Music Keyboard 410 .....	2	
Music Keyboard 420 or 430 .....	3	
Music General 495 .....	3	
Music Performance 155, 156 or 255, 256 (Voice) .....	1,1	
Music Performance 480, 481 (Piano) .....	2,2	
<sup>1</sup> Music Ensemble .....	1,1	
Music General 200 .....	0,0	
Music General 401 .....	0	
Electives .....	1	
Total		120

\*Meets University General Education Requirement.

<sup>1</sup>Piano majors take 4 hours of Music Ensemble 399 and 4 hours of Music Ensemble 380, 383, or 389.

<sup>2</sup>See Quantitative Reasoning list – University General Education Requirement. Select two courses from the list.

<sup>3</sup>See Social Sciences list – University General Education Requirement.

<sup>4</sup>To be chosen from Religious Studies 101\*, 102\*, 232, 305, 311, 321, 322, 326, 351, 352, 355, 370, 425, 430.

<sup>5</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>6</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · SACRED MUSIC CONCENTRATION · VOICE TRACK

**Requirements for the Bachelor of Music · Music Major · Sacred Music Concentration · Voice Track**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102* .....	3,3	
Music Theory 110, 120 .....	3,3	
Music Theory 130, 140 .....	1,1	
Musicology 110* .....	3	
Music Performance 155 (Voice).....	2,2	
Music Ensemble.....	1,1	
<sup>1</sup> Music Performance.....	1,1	
Foreign Language (200-level sequence)*.....	3,3	
Music General 200 .....	0,0	
<b>Sophomore</b>		
<sup>2</sup> Natural Sciences* .....	4,3	
Music Education 200.....	1	
Music Theory 210, 220 .....	3,3	
Music Theory 230, 240 .....	1,1	
Musicology 210*, 220* .....	3,3	
<sup>1</sup> Music Performance.....	1,1	
Music Ensemble.....	1,1	
Music Performance 255 .....	2,2	
Music Voice 425.....	3	
Music General 200 .....	0,0	
<b>Junior</b>		
<sup>3</sup> Social Sciences* .....	3,3	
Musicology 380* .....	3	
Music Theory 310 .....	3	
Musicology 480 .....	3	
Music Performance 355 .....	2,2	
Music Ensemble.....	1,1	
Music General 200 .....	0,0	
Music General 301 .....	0	
Music Education 310, 320.....	3,2	
<sup>4</sup> Communicating Orally* .....	3	
<b>Senior</b>		
<sup>5</sup> Quantitative Reasoning* .....	3,3	
Music Performance 455 .....	2,2	
Music Ensemble.....	1,1	
Music General 200.....	0,0	
Music General 495.....	3	
Music Voice 580-585 .....	2,2	
Music Voice 450-460 .....	2,1	
Music General 401 .....	0	
<sup>6</sup> Religious Studies .....	3	
Electives.....	2	
		<b>Total 120</b>

\*Meets University General Education Requirement.

<sup>1</sup>Class Piano (Music Keyboard 110-120, 210-220) or Organ (Music Performance 190).

<sup>2</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>3</sup>See Social Sciences list – University General Education Requirement. Select two courses from the list.

<sup>4</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement. Select two courses from the list.

<sup>6</sup>To be chosen from Religious Studies 101\*, 102\*, 232, 305, 311, 321, 322, 326, 351, 352, 355, 370, 425, 430.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · STRINGS CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Strings Concentration**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Performance (100 level) .....	3,3
Music Keyboard 110, 120 .....	1,1
Music Ensemble 370.....	1,1
Music General 200 .....	0,0
<sup>1</sup> Natural Sciences* .....	4
<b>Sophomore</b>	
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Keyboard 210, 220 .....	1,1
Music Performance (200 level) .....	3,3
Music Ensemble 370.....	1,1
Music General 200 .....	0,0
<sup>2</sup> Cultures and Civilizations* .....	3,3
<b>Junior</b>	
Music Theory 310 .....	3
Music Theory 420 .....	3
Musicology 380* .....	3
Music Performance (300 level) .....	3,3
Music Ensemble 370.....	1,1
Music Education 310.....	3
<sup>3</sup> Social Sciences* .....	3,3
<sup>4</sup> Communicating Orally* .....	3
Music General 200 .....	0,0
Music General 301 .....	0
<b>Senior</b>	
Music Performance (400 level) .....	3,3
Music Instrumental 340, 350.....	3,3
Music Ensemble 370.....	1,1
<sup>5</sup> Quantitative Reasoning* .....	3,3
Music General 200 .....	0,0
Music General 401 .....	0
<sup>1</sup> Natural Sciences* .....	3
Electives.....	7
<hr/> Total 120	

\*Meets University General Education Requirement.

<sup>1</sup>See Natural Sciences – University General Education Requirement. Choose two courses from the list. At least one of the courses must have a laboratory.

<sup>2</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>3</sup>See Social Sciences list – University General Education Requirement. Select two courses from the list.

<sup>4</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>5</sup>See Quantitative Reasoning list – University General Education Requirement. Select two courses from the list.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · STUDIO MUSIC AND JAZZ CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Studio Music and Jazz Concentration**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Musicology 350 .....	3
Music Jazz 110 .....	2
Music Jazz 130, 140 .....	1,1
Music Performance (100 level) .....	2,2
Music Ensemble .....	1,1
Music General 200 .....	0,0
<b>Sophomore</b>	
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Jazz 120 .....	2
Music Jazz 210, 220 .....	2,2
Music Performance (200 level) .....	2,2
Music Ensemble .....	1,1
Music General 200 .....	0,0
Music Theory 340 .....	3
<sup>1</sup> Social Sciences * .....	3
<b>Junior</b>	
Music Theory 310 .....	3
Music Jazz 310 .....	2
Music Jazz 320 .....	2
Musicology 380* .....	3
Music Performance (300 level) .....	2,2
Music Ensemble .....	1,1
Music General 200 .....	0,0
Music General 301 .....	0
<sup>2</sup> Natural Sciences* .....	4,3
<sup>3</sup> Cultures and Civilizations* .....	3,3
<b>Senior</b>	
Music Jazz 410 .....	3
Music Jazz 420 .....	1
Music Technology 290* .....	3
<sup>1</sup> Social Sciences* .....	3
<sup>4</sup> Quantitative Reasoning* .....	3
Music Performance (400 level) .....	2,2
Music Ensemble .....	1,1
Music General 200 .....	0,0
Music General 401 .....	0
<sup>5</sup> Communicating Orally* .....	3
Electives .....	7
<b>Total 120</b>	

\*Meets University General Education Requirement.

<sup>1</sup>See Social Sciences list – University General Education Requirement.

<sup>2</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>3</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>4</sup>See Quantitative Reasoning list – University General Education Requirement.

<sup>5</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · THEORY/COMPOSITION CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Theory/Composition Concentration**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Technology 340 .....	3
<sup>1</sup> Music Ensemble .....	1,1
Music General 200 .....	0,0
Music Keyboard 110, 120 .....	1,1
Music Technology 290* .....	3
<sup>2</sup> Quantitative Reasoning* .....	3
<b>Sophomore</b>	
Music Theory 210*, 220* .....	3,3
Music Theory 230, 240 .....	1,1
Music Performance 294 .....	1,1
Music Technology 390 .....	3
Musicology 210, 220 .....	3,3
<sup>1</sup> Music Ensemble .....	1,1
Music General 200 .....	0,0
Music Keyboard 210, 220 .....	1,1
<sup>3</sup> Cultures and Civilizations* .....	3,3
<b>Junior</b>	
Music Theory 310 .....	3
Music Theory 420 .....	3
Musicology 380* .....	3
Music Performance .....	1,1
<sup>4</sup> Area Study .....	2,2
<sup>1</sup> Music Ensemble .....	1,1
Music General 200 .....	0,0
Electives .....	5
<sup>5</sup> Natural Sciences* .....	4,3
Communication Studies 210* .....	3
<b>Senior</b>	
Music Theory 430, 440 .....	3,3
Music Performance .....	1,1
<sup>4</sup> Area Study .....	2,2
<sup>1</sup> Music Ensemble .....	1,1
Music Education 310 .....	3
Music General 200 .....	0,0
<sup>6</sup> Social Sciences* .....	3,3
Electives .....	6
<b>Total</b>	<b>120</b>

\*Meets University General Education Requirement.

<sup>1</sup>For string majors: Music Ensemble 370; For wind, brass, percussion majors: Music Ensemble 350, 352, 353, or 370. For piano/organ majors: Music Ensemble 399 (max 4 hours), 380, 330, 383, 389.

<sup>2</sup>See Quantitative Reasoning list – University General Education Requirement.

<sup>3</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>4</sup>Areas of Study

OPTION A – Composition: Music Performance 394, Music Performance 494, Music General 411.

OPTION B – Electronic Composition: Music Performance 395, Music Performance 495, Music General 411

OPTION C – Music Theory: Music Performance 394 or 395, Music Theory 493, Musicology Elective (300 level and above).

<sup>5</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>6</sup>See Social Sciences list – University General Education Requirement. Select two courses from the list.

## REVISE BACHELOR OF MUSIC · MUSIC MAJOR · VOICE CONCENTRATION

**Requirements for the Bachelor of Music · Music Major · Voice Concentration**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Performance 155 .....	3,3
Music Ensemble.....	1,1
Music General 200.....	0,0
Music Keyboard 110, 120 .....	1,1
<sup>1</sup> Foreign Language.....	3,3
<b>Sophomore</b>	
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Performance 255 .....	3,3
Music Ensemble.....	1,1
Music Keyboard 210, 220 .....	1,1
Music General 200.....	0,0
Music Voice 240, 250.....	2,2
<b>Junior</b>	
Musicology 380*.....	3
<sup>1</sup> Foreign Language.....	3,3
<sup>2</sup> Social Sciences* .....	3
Music Theory 310 .....	3
Music Performance 355 .....	3,3
Music Ensemble.....	1,1
Music General 200.....	0,0
Music General 301.....	0
<sup>3</sup> Natural Sciences* .....	4,3
Music Education 310.....	3
<b>Senior</b>	
Music Voice 410, 420.....	2,2
Music Voice 450, 460.....	2,1
Music Performance 455 .....	3,3
Music Ensemble.....	1,1
Music Ensemble 340.....	1,1
Music General 200.....	0,0
Music General 401 .....	0
<sup>2</sup> Social Sciences* .....	3
<sup>4</sup> Communicating Orally* .....	3
<sup>5</sup> Quantitative Reasoning .....	3,3
<b>Total</b>	<b>123</b>

\*Meets University General Education Requirement.

<sup>1</sup>Consult with voice concentration advisor for the appropriate language concentrations.

<sup>2</sup>See Social Sciences list – University General Education Requirement.

<sup>3</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>4</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

<sup>5</sup>See Quantitative Reasoning – University General Education Requirement. Select two courses from the list.

REVISE BACHELOR OF MUSIC · MUSIC MAJOR · WOODWIND, BRASS, AND PERCUSSION INSTRUMENTS  
CONCENTRATION**Requirements for the Bachelor of Music · Music Major · Woodwind, Brass, and Percussion Instruments Concentration**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	3,3
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology 110* .....	3
Music Performance (100 level) .....	3,3
Music Ensemble.....	1,1
Music Keyboard 110,120 .....	1,1
<sup>1</sup> Cultures and Civilization* .....	3,3
Music General 200.....	0,0
<b>Sophomore</b>	
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 210*, 220* .....	3,3
Music Performance (200 level) .....	3,3
Music Ensemble.....	1,1
Music Keyboard 210, 220 .....	1,1
<sup>2</sup> Social Sciences* .....	3,3
Music General 200.....	0,0
<b>Junior</b>	
Music Theory 310 .....	3
Music Theory 320 .....	2
Music Performance (300 level) .....	3,3
Music Ensemble.....	1,1
Musicology 380* .....	3
Music Instrumental 310, 320 or 330.....	3
Music General 200.....	0,0
Music General 301 .....	0
Electives.....	3
<sup>3</sup> Natural Sciences* .....	4,3
<b>Senior</b>	
Music Education 310.....	3
Music Electives .....	4
Music Performance (400 level) .....	3,3
Music Ensemble.....	1,1
Music General 200.....	0,0
Music General 401 .....	0
<sup>4</sup> Quantitative Reasoning* .....	6
<sup>5</sup> Communicating Orally* .....	3
Electives.....	4
<b>Total 120</b>	

\*Meets University General Education Requirement.

<sup>1</sup>See Cultures and Civilizations – University General Education Requirement. Select two courses on the list or two courses in a foreign language at the intermediate level.

<sup>2</sup>See Social Sciences – University General Education Requirement. Select two courses from the list.

<sup>3</sup>See Natural Sciences – University General Education Requirement. Select two courses from the list. At least one of the courses must have a laboratory.

<sup>4</sup>See Quantitative Reasoning – University General Education Requirement. Select two courses from the list.

<sup>5</sup>See Communicating Orally – University General Education Requirement. Select one course from the list.

REVISE BACHELOR OF ARTS - MUSIC MAJOR

**Requirements for the Bachelor of Arts - Music Major**

	<b>Hours Credit</b>
<b>Prerequisites:</b>	
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Music Performance (100 level) .....	1,1
<b>Courses toward the major:</b>	
Music Theory 210, 220 .....	3,3
Music Theory 230, 240 .....	1,1
Musicology 110* .....	3
Musicology 210*, 220* .....	3,3
<sup>1</sup> Music Performance (200 level or above) .....	2,2,2,2
<sup>2</sup> Music General 200 .....	0,0,0,0
<sup>3</sup> Music Ensemble .....	1,1,1,1
Music Theory 310 .....	3
Musicology 350 or 380 .....	3
<sup>4</sup> Music Electives .....	0-3
<b>Total 45-48</b>	

This degree requires a minimum of 120 hours as structured by the requirements outlined for the Bachelor of Arts degree with the College of Arts and Sciences. See the Undergraduate Catalog for further details.

<sup>1</sup>Students must complete a minimum of four semesters of Music Performance at the 200 level or above.

<sup>2</sup> Music General 200 must be completed a minimum of four semesters

<sup>3</sup>For String majors: Music Ensemble 370. For Voice majors: Music Ensemble 340 (maximum 1 hour), 380, 330, 383, or 389, or wind, brass, percussion majors: Music Ensemble 353, 352, 350, or 370. For piano or organ majors: Music Ensemble 399 (maximum 2 credits), 380, 330, 383, 389, 353, 352, 350 or 370.

<sup>4</sup>Select from: Music General 301(0), 411(0); Music Theory 493 (3); Musicology 460 (3), 493 (3).



ADD MUSIC AND CULTURE CONCENTRATION (BACHELOR OF ARTS - MUSIC MAJOR)

- On page 126 of the 2004-2005 Undergraduate catalog, 1<sup>st</sup> column, Insert in catalog after section on Requirements for the Bachelor of Arts – Music Major and before Music Minor)

**Requirements for Bachelor of Arts • Music Major • Music and Culture Concentration**

	Hours Credit
<b>Prerequisites:</b>	
Music Theory 110, 120 .....	3,3
Music Theory 130, 140 .....	1,1
Musicology Course (100 level).....	3
<sup>1</sup> Intro Culture Course (100 level) .....	3
<b>Courses toward the major:</b>	
Music Theory 210 .....	3
Music Theory 230 .....	1
Music Jazz 110 or Music Theory 220 .....	2-3
Music Performance (100 level) .....	1,1
Music General 200 .....	0,0
<sup>2</sup> Music Ensemble .....	1,1
<sup>3</sup> Performance Experience .....	2
Musicology 210, 220 .....	3,3
Musicology 290 .....	3
Musicology 380 .....	3
<sup>4</sup> Musicology Elective (300 level or above) .....	3,3
<sup>5</sup> Interdisciplinary Elective .....	3
<hr/> Total 47-48	

This degree requires a minimum of 120 hours as structured by the requirements outlined for the Bachelor of Arts degree with the College of Arts and Sciences. See the Undergraduate Catalog for further details.

<sup>1</sup>To be chosen from Anthropology 130, Sociology 120, Asian Studies 101 or 102, Religious Studies 101 or 102, or by approval of musicology faculty.  
<sup>2</sup>To be chosen from Music Ensemble 303, 304, 305, 315, 320, 330, 340, 350, 352, 353, 370, 380, 383, or 389.  
<sup>3</sup>To be chosen from Music Performance 100 level or above; Music Education 260 or 310; Music Jazz 130, 160 or 210; Music Keyboard 110, 230; Music Voice 110; Dance 210, 220, 230, or 240.  
<sup>4</sup>To be chosen from Musicology 310, 330, 350, 410, 420, 430, 450, 460, or 493.  
<sup>5</sup>To be chosen from African and African-American Studies 201, 202, 235 or 236; Comparative Literature 202 or 203; History 255 or 256; Global Studies 250; Latin American Studies 251 or 252; Medieval Studies 201 or 202; Religious Studies 232 or 301; Sociology 232 or 250; Women's Studies 220; or by approval of musicology faculty.

REVISE MUSIC MINOR (APPLIED MUSIC CONCENTRATION)

Change Music History 200 to: Musicology 200

DROP MINOR CONCENTRATION IN MUSIC HISTORY AND LITERATURE

ADD MINOR CONCENTRATION IN MUSICOLOGY

- Minor concentration in musicology of 17 hours in courses numbered 200 and above, distributed as follows: Musicology 200, nine hours in musicology courses, and five hours in music electives. Prerequisites are Music Theory 100 or equivalent and two semesters of applied music study at the 103-190 levels.

## DEPARTMENT OF PHILOSOPHY

### REVISE PHILOSOPHY MAJOR

- On page 126 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Philosophy Major, 2<sup>nd</sup> bullet, revise to
  - Requirements – 24 hours of courses numbered 200 or above, including 3 hours of ethics (normally 340 or 440) and 6 hours in the history of philosophy, 3 hours in ancient (normally 320), and 3 hours in modern (normally 324). Majors are required to discuss their program with a member of the philosophy faculty.

## DEPARTMENT OF PHYSICS AND ASTRONOMY

### REVISE HONORS ACADEMIC AND HONORS APPLIED CONCENTRATIONS REQUIREMENTS (PHYSICS MAJOR)

- On page 127 of the 2004-2005 Undergraduate Catalogue, 2<sup>nd</sup> column, Honors Academic and Honors Applied Concentrations, revise to

**Honors Academic and Honors Applied Concentrations**  
Students who complete all requirements for the academic or applied concentrations will be awarded a degree with Honors if their university-wide GPA is at least 3.0, their GPA in 300- and 400-level mathematics and physics courses is at least 3.5, and they complete a written senior thesis reporting results of research conducted under faculty supervision and defended before a committee of three physics faculty members. A minimum of three credit hours of Physics 493 is required.

## DEPARTMENT OF SOCIOLOGY

### REVISE CRIMINAL JUSTICE CONCENTRATION (SOCIOLOGY MAJOR)

- On page 130 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Criminal Justice Concentration, revise to

**Criminal Justice Concentration**  
All prerequisites and upper-division courses required for general majors are required for this concentration. In addition, the concentration consists of 21 hours of upper-division sociology as follows: 350, 351, 451; one of the five following courses 495, 452, 453, 455, 459, 495; and three courses selected in consultation with advisor.

## DEPARTMENT OF URBAN AND REGIONAL PLANNING

### ELIMINATE DEPARTMENT

- On page 131 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, Department of Urban and Regional Planning, delete the entire section, heading and description.

**COLLEGE OF BUSINESS ADMINISTRATION****ALL CHANGES EFFECTIVE: FALL 2005 (UNLESS OTHERWISE NOTED\*\*)****COLLEGE OF BUSINESS ADMINISTRATION****Part I: Course Changes****Business Administration (205)**

ADD

**353 CBM III: Integrated Process Management (3)** Behavioral processes in organizations with an emphasis on team dynamics and decision making within the contextual framework of integrated business process management. Prereq: 331 and 341; Coreq: 361, Finance 301.

DROP

**351 CBM III: Business Management: The Marketplace (2)**

**352 CBM III: Organizational Behavior (1)**

**495 Seminar in International Business Policy (3)**

REVISE PREREQUISITE

**201 Business Functions (4)** Prereq: Economics 201, Accounting 200, 101 or equivalent. Coreq: Statistics 201.

REPEATABILITY CLARIFICATION

**491 Foreign Study (1-15)**. Prereq: Consent of instructor. May be repeated. Maximum 15 hours.

**492 Off Campus Study (1-15)** Prereq: Consent of the Instructor. May be repeated. Maximum 15 hours. Satisfactory/No Credit grading only.

**493 Independent Study (1-15)** Prereq: Consent of instructor. May be repeated. Maximum 15 hours.

**Part II: Program Changes**

REVISE GRADUATION REQUIREMENTS

Reduce the number of hours required for graduation to 120 for all majors.

REVISE GENERAL EDUCATION REQUIREMENTS

From

Ethics: Philosophy 342 or 344 (3 hours)

To

Ethics: Philosophy 243, 244, or 443 (3 hours)

## REVISE MINOR IN BUSINESS ADMINISTRATION

- On page 134 of the 2004-2005 Undergraduate Catalog, revise to

Students must successfully complete the following requirements:

Accounting 200 .....	3
Economics 201 .....	4
Statistics 201 .....	3
Business Administration 201 .....	4
Finance 301 .....	3
Marketing 300.....	3
Management 300.....	3
<hr/>	
	Total 23

## REVISE COLLEGE PROGRESSION STANDARDS

- On page 135 of the 2004-2005 Undergraduate Catalog, revise to

Mathematics 125, 123, or 141-142 (6 or 8 hours)  
 Written Communication (3 hours from English 255, 295, or 355)  
 Accounting 200 (3 hours)  
 Economics 201 (4 hours)  
 Statistics 201 (3 hours)  
 Business Administration 201 (4 hours)

**DEPARTMENT OF ACCOUNTING AND INFORMATION MANAGEMENT****Part I: Course Changes****Accounting (009)**

ADD

**301 Financial Reporting (3)** Theory and practice for preparing and using financial statements. Introduction to professionalism and ethics in accounting. Prereq/Coreq: Finance 301 and Business Administration 342 or consent of the instructor.

REVISE COURSE TITLE

**207 Honors: Foundations of Accounting (3)**

REVISE PREREQUISITE/COREQUISITE

**311 Financial Reporting and Analysis (3)** Prereq: 301 with a grade of C or better or consent of instructor.

**321 Cost Management (3)** Prereq/Coreq: Accounting 301 or consent of instructor.

**411 Financial Compliance, and Operational Auditing (3)** Prereq/Coreq: 301 with a grade of C or better or consent of instructor.

**431 Federal Income Taxation (3)** Prereq/Coreq: 301 with a grade of C or better or consent of instructor.

REPEATABILITY CLARIFICATION

**492 Accounting Internship (1-6)** Prereq: Consent of instructor. May be repeated. Maximum 6 hours. Satisfactory/No Credit grading only.

**Part II: Program Changes**

REVISE ACCOUNTING MAJOR WITH COLLATERAL OPTION

- On pages 136-137 of the 2004-2005 Undergraduate Catalog, revise to

Accounting 301 (3)\* a required elective and prereq to other Accounting courses  
 Accounting 311 (3)  
 Accounting 321 (3)  
 Information Management 341 (3)

Accounting 411 (3)  
 Accounting 414 or 431 (3)  
 Collateral (9)  
 Electives (6-10)

#### ADD INTERNATIONAL BUSINESS COLLATERAL

- On page 137 of the 2004-2005 Undergraduate Catalog, Accounting Collateral Options, add  
 International Business: ECON 329; BA 371; MGT 471
- On page 137 of the 2004-2005 Undergraduate Catalog, footnote 8—revise to footnote 4

<sup>4</sup> In the spring of their Junior year, students normally make the decision whether to enter the job market upon graduation or apply to the Master of Accountancy program. Accounting 414 and 431 are both prerequisites to the MAcc program; therefore, students planning to enter the MAcc program should take Accounting 414 or 431 (whichever was not taken to satisfy the Major requirement) instead of Finance 455 in the Finance collateral, instead of Information Management 442 in the Information Management collateral, instead of Management 471 in the International Business collateral, and instead of Logistics 441 in the Logistics collateral.

#### REVISE LOGISTICS COLLATERAL

- On page 137 of the 2004-2005 Undergraduate Catalog, Accounting Collateral Options, revise to  
 Logistics – LOG 310; LOG 411; LOG 421
- On page 137 of the 2004-2005 Undergraduate Catalog, footnote 8—revise to footnote 4

<sup>4</sup> In the spring of their Junior year, students normally make the decision whether to enter the job market upon graduation or apply to the Master of Accountancy program. Accounting 414 and 431 are both prerequisites to the MAcc program; therefore, students planning to enter the MAcc program should take Accounting 414 or 431 (whichever was not taken to satisfy the Major requirement) instead of Finance 455 in the Finance collateral, instead of Information Management 442 in the Information Management collateral, instead of Management 471 in the International Business collateral, and instead of Logistics 421 in the Logistics collateral.

## BUSINESS STUDIES (INTERDEPARTMENTAL PROGRAM)

### Program Changes

#### REVISE BUSINESS STUDIES MAJOR BY DROPPING ACCOUNTING 311 OR 321 AND ADDING ACCOUNTING 301

24 hours including  
 Accounting 301  
 Economics 311 or 313  
 Human Resource Development 340  
 Finance 425 or 435  
 Information Management 341  
 Logistics 310 or Operations and Management Science 341  
 Marketing 340  
 Statistics 320

## DEPARTMENT OF ECONOMICS

### Part I: Course Changes

#### Economics (283)

##### REPEATABILITY CLARIFICATION

**492 Economics Off-Campus Study (1-6)** Prereq: Consent of instructor. May be repeated. Maximum 6 hours. Satisfactory/No Credit grading only.

**493 Independent Study (1-3)** Opportunity for qualified students to pursue topics of special interest. Prereq: Senior standing, 3.0 GPA in economics courses, and consent of instructor. May be repeated. Maximum 3 hours.

**DEPARTMENT OF FINANCE****Part I: Course Changes****Finance (349)**

DROP

**201 Personal Finance (3)**

DROP PRIMARY CROSS-LISTED COURSE

**280 Introduction to Real Estate (3)** (*Same as Urban Studies 280.*)

REVISE PREREQUISITE AND REMOVE COREQUISITE

**301 Financial Management (3)** Prereq: Business Administration 201.

REVISE PREREQUISITE

**402 Special Topics in Finance (3)** Prereq: Finance 301.

REPEATABILITY AND GRADING CLARIFICATION

**492 Off-Campus Study (1-3)** Professional internship with practicing professionals under the direction of a faculty member. Prereq: Approval of instructor. Available for free elective only. May be repeated. Maximum 3 hours. Satisfactory/No Credit grading only.

REPEATABILITY CLARIFICATION

**493 Independent Study (1-3)** Prereq: Consent of the instructor and department head. May be repeated. Maximum 3 hours. Letter grade only.

**495 Investment Fund Management (1-3)** Members of this class (or investment team) manage over a half-million dollar portfolio of common stocks on behalf of the Tennessee Valley Authority (TVA). This team also engages in a 25-university investment performance competition sponsored by TVA. Prereq: Minimum GPA of 3.0 in all upper division business courses attempted, 455, and consent of instructor. May be repeated. Maximum 3 hours.

**Part II: Program Changes**

FINANCE MAJOR

DROP COLLATERALS: DECISION ANALYSIS, GENERAL MANAGEMENT, MARKETING, QUANTITATIVE STUDIES, STATISTICS

- On page 140 of the 2004-2005 Undergraduate Catalog, Finance Collateral Options, delete

Decision Analysis – IM 341; IM 342; IM 442

General Management – MGT 321; MGT 421; MGT 431

Marketing – MKT 340; MKT 460; and any two of MKT421, 454, 456, or 458

Quantitative Studies – MATH 251 (Mathematics 141-142 prerequisites); MATH 231; MATH 401

Statistics – STAT 320; STAT 471; and choice of either STAT 472 or STAT 475

REVISE ACCOUNTING COLLATERAL

- On page 140 of the 2004-2005 Undergraduate Catalog, Finance Collateral Options, revise to  
Accounting – ACC 301; ACC 321; any one of ACC 311, IM 341, or ACC 431

REVISE INFORMATION MANAGEMENT COLLATERAL

- On page 140 of the 2004-2005 Undergraduate Catalog, Finance Collateral Options, revise to  
Information Management – IM 341; 342; 442 or 443

## REVISE LOGISTICS COLLATERAL

- On page 140 of the 2004-2005 Undergraduate Catalog, Finance Collateral Options, revise to Logistics – LOG 310; LOG 411; LOG 421

**HUMAN RESOURCE DEVELOPMENT PROGRAM**

THE HUMAN RESOURCE DEVELOPMENT (529) ACADEMIC DISCIPLINE AND COURSES HAVE MOVED TO THE DEPARTMENT OF MANAGEMENT AS OF FALL 2004

THE HUMAN RESOURCE DEVELOPMENT MAJOR HAS MOVED TO THE DEPARTMENT OF MANAGEMENT AS OF FALL 2004

**DEPARTMENT OF MANAGEMENT****Part I: Course Changes****Human Resource Development (529)**

THE HUMAN RESOURCE DEVELOPMENT ACADEMIC DISCIPLINE AND COURSES HAVE MOVED FROM HUMAN RESOURCE DEVELOPMENT (PROGRAM) TO THE DEPARTMENT OF MANAGEMENT AS OF FALL 2004

**Management (625)**

ADD

**472 International Human Resource Management (3)** Introduction to international human resource management from the perspective of the multinational firm. Topics include: globalization and human resource strategy, understanding culture in the management of human resources, intercultural differences, selecting employees for international assignments, training and developing expatriate employees, and evaluation and compensation of employees in international assignments. Prereq: Business Administration 201.

**481 Experiential Cross-Cultural Leadership (3)** Examination of the challenges and opportunities of leading people and organizations in cross-cultural settings through experiential methodologies. Topics include: multi-national organizational culture, intercultural communications, intercultural decision-making, managing political risks, and motivation and leadership in cross-cultural settings. Prereq: Business Administration 361.

DROP

**321 Organizational Structure and Behavior (3)**  
**411 Labor Relations and Collective Bargaining (3)**  
**421 Total Quality Management (3)**  
**432 Human Resource Management II (3)**

REPEATABILITY CLARIFICATION

**492 Off-Campus Study (1-6)** Prereq: Consent of instructor. May be repeated. Maximum 6 hours. Satisfactory/ No Credit grading only.

**Part II: Program Changes**

HUMAN RESOURCE DEVELOPMENT MAJOR

THE HUMAN RESOURCE DEVELOPMENT MAJOR HAS MOVED FROM HUMAN RESOURCE DEVELOPMENT (PROGRAM) TO DEPARTMENT OF MANAGEMENT AS OF FALL 2004

DROP COLLATERALS: DECISION ANALYSIS, GENERAL MANAGEMENT, LOGISTICS, MARKETING, OPERATIONS MANAGEMENT, RESOURCE MANAGEMENT

- On page 141 of the 2004-2005 Undergraduate Catalog, Human Resource Development Collateral Options, delete
  - Decision Analysis – IM 341; IM 342; IM 442
  - General Management – MGT 321; MGT 421; MGT 411 or MGT 431
  - Logistics – LOG 310; LOG 411; LOG 421; LOG 441
  - Marketing – MKT 340; MKT 460; any two of MKT 452, 454, 456, or 458

Operations Management – OMS 341; OMS 441; OMS 410 or MGT 421  
Resource Management – ACC 321; FIN 435; FIN 455

#### REVISE INFORMATION MANAGEMENT COLLATERAL

- On page 141 of the 2004-2005 Undergraduate Catalog, Human Resource Development Collateral Options, revise to

Information Management – IM 341; 342; 442 or 443

#### ADD DUAL CONCENTRATION WITH MANAGEMENT

HRD 440  
HRD 452  
HRD 455  
HRD 479

HRD 340  
MGT 431  
IM 341  
MGT 471 or 481

#### MANAGEMENT MAJOR

##### REVISE MANAGEMENT MAJOR AND DUAL CONCENTRATIONS

To

MGT 431  
OMS 341  
IM 341  
HRD 340  
MGT 471 or 481

Select a dual concentration from:

Human Resource Development: HRD 440; HRD 452; HRD 455

Information Management: IM 342; IM 442; IM 443

International Business: ECON 329; BA 371; MGT 471 or 481 (whichever was not taken as part of the major requirement).

##### DROP COLLATERALS: DECISION ANALYSIS, FINANCE, HUMAN RESOURCE DEVELOPMENT, INFORMATION MANAGEMENT, INTERNATIONAL BUSINESS, LOGISTICS, MARKETING

- On page 142 of the 2004-2005 Undergraduate Catalog, Management Collateral Options, delete

Decision Analysis – IM 341; IM 342; IM 442

Finance – FIN 425 or 435; FIN 455; three hours from FIN 425; 435; 475; or 485

Human Resource Development – HRD 340; HRD 440; HRD 455

Information Management: IM 341; IM 342; IM 443

International Business: ECON 329; BA 371; MGT 471

Logistics – LOG 310; LOG 411; LOG 421; LOG 441

Marketing – MKT 340; MKT 460; and any two of MKT 452, 454, 456, or 458

#### REVISE INTERNATIONAL BUSINESS DUAL CONCENTRATION

- On page 142-143 of the 2004-2005 Undergraduate Catalog, Management Major with International Business Dual Concentration, revise to

MGT 431  
OMS 341  
IM 341  
HRD 340  
MGT 471 or 481  
ECON 329 (3)

BA 371 (3)  
MGT 471 or 481 (3) (whichever was not taken as part of major)



**DEPARTMENT OF MARKETING AND LOGISTICS****Part I: Course Changes****Logistics (626)**

DROP

**400 Special Topic in Logistics (3-6)****441 Global Logistics (2) \*\*The drop for 441 is effective: Spring 2006**

ADD

**413 Logistics Operations Management (3)** Analysis of logistics operations and management techniques applied to warehousing/distribution center operations, purchasing and operation of transportation services, and logistics personnel management. Prereq: 310. Coreq: 411.

REVISE DESCRIPTION

**310 Intermediate Logistics (3)** The concepts, principles, and methods used to plan, organize, and manage logistics activities in a global environment. Activities covered include: customer service, order fulfillment, inventory, materials and distribution planning, transportation, warehousing, and network design. Prereq: Business Administration 331.

REVISE DESCRIPTION AND PREREQUISITES/COREQUISITES

**412 Logistics Analytical Methods II (3)** Advanced analytical tools and techniques used to solve strategic, tactical, and operational global supply chain problems; managing the use of quantitative analytical tools in logistics. Prereq: 310. Coreq: 411.

REVISE DESCRIPTION AND CREDIT HOURS

**411 Logistics Analytical Methods I (3)** Introduction to the principle analytical tools and models that are used in logistics; application of the analytical tools to logistics problems; using these techniques to support negotiations in a global business world. Prereq: 310.

REVISE TITLE, DESCRIPTION, CREDIT HOURS, AND PREREQUISITES

**421 Procurement and Supply Management (3)** Addresses the processes that facilitate the structure, development, and management of value added transactions and relationships between supplier and customer organizations in a global supply chain context. The course examines the management of the business purchasing function, including supplier selection and development, quality control, cost management, and performance measurement. Prereq: 411.

REVISE TITLE, DESCRIPTION, AND PREREQUISITES

**460 Strategic Logistics in a Global Supply Chain Environment (3)** Capstone course for logistics, with emphasis on strategic logistics from a global supply chain perspective. Integrates logistics concepts, framework, processes and tools learned in previous logistics coursework. Prereq: 411.

REPEATABILITY CLARIFICATION

**492 Logistics Off-Campus Study (1-6)** Prereq: Consent of instructor. May be repeated. Maximum 6 hours. Satisfactory/ No Credit grading only.

**Marketing (632)**

ADD

**345 Marketing Analytics (2)** Develops students' analytical and decision-making skills through specific exercises and examples that apply various statistics principles to marketing-specific content. Students learn how to organize data into customer databases and how to analyze those databases through learning of statistical techniques, decision analysis techniques, and spreadsheet analysis techniques. Prereq: Business Administration 332. Coreq: 340.

DROP

**310 Buyer Behavior – Analysis for Marketing (3)****454 Channels Management (2)****497 Honors I (3)**

## REVISE DESCRIPTION, CREDIT HOURS, AND PREREQUISITES

**350 Customer Value Analysis (3)** Examines how organizations conceptualize, gather, analyze, and interpret data needed by managers to learn about customers in markets. Topics include selected consumer/customer behavior theories, customer value determination, and selected marketing research techniques. Prerequisite: 340, 345. Marketing major and co-concentration students only: 350 is a prereq/coreq for 452, 456, and 458.

**460 Global Marketing Strategy (3)** Capstone course for Marketing to integrate concepts, frameworks, processes and tools presented in all prior coursework. Students examine the application of marketing knowledge and skills in a global context, with particular emphasis on how organizations respond with global marketing strategies. Prereq: 350 and two of the following—452, 456, or 458.

## REPEATABILITY CLARIFICATION

**492 Off-Campus Study (1-6)** Prereq: Consent of Instructor. May be repeated. Maximum 6 hours. Satisfactory/ No Credit grading only.

**Part II: Program Changes**

## LOGISTICS MAJOR

## REVISE LOGISTICS MAJOR

To

LOG 310 (3)  
 LOG 411 (3)  
 LOG 412 (3) or 413 (3)  
 LOG 421 (3)  
 LOG 460 (3)

## DROP LOGISTIC COLLATERAL OPTIONS: DECISION ANALYSIS, GENERAL MANAGEMENT, HUMAN RESOURCE DEVELOPMENT, RESOURCE MANAGEMENT, STATISTICS

- On page 143 of the 2004-2005 Undergraduate Catalog, Logistics Collateral Options, delete
  - Decision Analysis – IM 341; IM 342; IM 442
  - General Management – MGT 321; MGT 421; MGT 411 or 431
  - Human Resource Development – HRD 340; 440; 455
  - Resource Management – ACC 321; FIN 435; FIN 455
  - Statistics – STAT 320; STAT 471; STAT 475

## REVISE INFORMATION MANAGEMENT COLLATERAL

- On page 143 of the 2004-2005 Undergraduate Catalog, Logistics Collateral Options, revise to
  - Information Management – IM 341; 342; 442 or 443

## REVISE MARKETING COLLATERAL

- On page 143 of the 2004-2005 Undergraduate Catalog, Logistics Collateral Options, revise to
    - Marketing – MKT 340; MKT 350; and any two of MKT 452, 456 or 458\*
- \* Reduce elective hours by one

## REVISE OPERATIONS MANAGEMENT COLLATERAL

- On page 143 of the 2004-2005 Undergraduate Catalog, Logistics Collateral Options, revise to
  - Operations Management – OMS 341; OMS 441; and OMS 410 or 421

## REVISE INFORMATION MANAGEMENT DUAL CONCENTRATION

- On page 144 of the 2004-2005 Undergraduate Catalog, Logistics Major with Information Management Dual Concentration, revise to

LOG 310 (3)  
LOG 411 (3)  
LOG 421 or 413 (3)  
LOG 460 (3)

IM 341 (3)  
IM 342 (3)  
IM 442 (3)  
IM 443 (3)

## REVISE INTERNATIONAL BUSINESS DUAL CONCENTRATION

- On page 144 of the 2004-2005 Undergraduate Catalog, Logistics Major with International Business Dual Concentration, revise to

LOG 310 (3)  
LOG 411 (3)  
LOG 421 or 413 (3)  
LOG 460 (3)

ECON 329 (3)  
BA 371 (3)  
MGT 471 (3)  
MGT 481 (3)

## REVISE MARKETING DUAL CONCENTRATION

- On page 144 of the 2004-2005 Undergraduate Catalog, Logistics Major with Marketing Dual Concentration, revise to

LOG 310 (3)  
LOG 411 (3)  
LOG 421 or 413 (3)  
LOG 460 (3)

MKT 340 (3)  
MKT 350 (3)  
MKT 460 (3)

Marketing Electives – 4 hours from MKT 452 (2), 456 (2), 458 (2)

## REVISE OPERATIONS MANAGEMENT DUAL CONCENTRATION

- On page 145 of the 2004-2005 Undergraduate Catalog, Logistics Major with Operations Management Dual Concentration, revise to

LOG 310 (3)  
LOG 411 (3)  
LOG 421 or 413 (3)  
LOG 460 (3)

OMS 341 (3)  
OMS 441 (3)  
OMS 421 (3)  
OMS 410 (3)

## REVISE STATISTICS DUAL CONCENTRATION

- On page 145 of the 2004-2005 Undergraduate Catalog, Logistics Major with Statistics Dual Concentration, revise to

LOG 310 (3)  
LOG 411 (3)  
LOG 421 or 413 (3)  
LOG 460 (3)

STAT 320 (3)  
STAT 365 (3)  
STAT 471 (3)  
STAT 474 or 475 (3)

#### MARKETING MAJOR

##### REVISE MARKETING MAJOR – COLLATERAL OPTION

- On page 145-146 of the 2004-2005 Undergraduate Catalog, Marketing Major, Collateral Option, revise to

MKT 340 (3)  
MKT 345 (2)  
MKT 350 (3)  
MKT 460 (3)  
Four hours from MKT 452, 456, or 458\*

##### DROP MARKETING COLLATERAL OPTIONS: DATA MINING, DECISION ANALYSIS, FORECASTING, GENERAL MANAGEMENT, HUMAN RESOURCE DEVELOPMENT, PROCESS THINKING

- On page 145-146 of the 2004-2005 Undergraduate Catalog, Marketing Collateral Options delete

Data Mining – STAT 320; STAT 471; STAT 474  
Decision Analysis – IM 341; IM 342; IM 442  
Forecasting – STAT 320, STAT 471, STAT 475  
General Management – MGT 321; MGT 421; MGT 411 or 431  
Human Resource Development – HRD 340; HRD 440; HRD 455  
Process Thinking – STAT 320; STAT 365; STAT 471

##### REVISE INFORMATION MANAGEMENT COLLATERAL

- On page 145-146 of the 2004-2005 Undergraduate Catalog, Marketing Collateral Options, revise to  
Information Management – IM 341; 342; 442 or 443

##### REVISE LOGISTICS COLLATERAL

- On page 145-146 of the 2004-2005 Undergraduate Catalog, Marketing Collateral Options, revise to  
Logistics – LOG 310; LOG 411; LOG 421

##### REVISE INFORMATION MANAGEMENT DUAL CONCENTRATIONS

- On page 146 of the 2004-2005 Undergraduate Catalog, Marketing Major with Information Management Dual concentration, revise to

MKT 340 (3)  
MKT 350 (3)  
MKT 460 (3)  
Marketing Electives – 4 hours from MKT 452, 456, 458

IM 341 (3)  
IM 342 (3)  
IM 442 (3)  
IM 443 (3)

##### REVISE INTERNATIONAL BUSINESS DUAL CONCENTRATION

- On page 146 of the 2004-2005 Undergraduate Catalog, Marketing Major with International Business Dual concentration, revise to

MKT 340 (3)  
MKT 350 (3)  
MKT 460 (3)  
Marketing Electives – 4 hours from MKT 452, 456, 458

ECON 329 (3)  
BA 371 (3)  
MGT 471 (3)  
MGT 481 (3)

REVISE LOGISTICS DUAL CONCENTRATION

- On page 146-147 of the 2004-2005 Undergraduate Catalog, Marketing Major with Logistics Dual Concentration, revise to
  - MKT 340 (3)
  - MKT 350 (3)
  - MKT 460 (3)
  - Marketing Electives – 4 hours from MKT 452 (2), 456 (2), 458 (2)
  - LOG 310 (3)
  - LOG 411 (3)
  - LOG 421 (3)
  - LOG 460 (3)

REVISE STATISTICS DUAL CONCENTRATION

- On page 147 of the 2004-2005 Undergraduate Catalog, Marketing Major with Statistics Dual Concentration, revise to
  - MKT 340 (3)
  - MKT 350 (3)
  - MKT 460 (3)
  - Marketing Electives – 4 hours from MKT 452 (2), 456 (2), 458 (2)
  - 1) STAT 320 (3)
  - STAT 330 (3)
  - STAT 471 (3)
  - STAT 474 or 475 (3)
  - Or
  - 2) STAT 320 (3)
  - STAT 471 (3)
  - STAT 474 (3)
  - STAT 475 (3)

**DEPARTMENT OF STATISTICS, OPERATIONS AND MANAGEMENT SCIENCE**

**Part I: Course Changes**

**Operations And Management Science (738)**

ADD

**421 Total Quality Management (3)** Successful quality improvements characterized by four main principles: customer focus, continuous improvement, leadership, and teamwork, This course focuses on the managerial perspective that is necessary to successfully implement and integrate quality improvements initiatives. The quality improvement tools are also presented. Prereq: Business Administration 341

**Reference Chart for Curriculum System Entry**

Former Course (625) Management	Fall 2005 (738) Operations and Management Science
Management 421	Operations and Management Science 421

**Part II: Program Changes**

STATISTICS MAJOR

DROP DECISION ANALYSIS COLLATERAL

- On page 149 of the 2004-2005 Undergraduate Catalog, Statistics Collateral Options, delete
  - Decision Analysis – IM 341; IM 342

ADD INFORMATION MANAGEMENT COLLATERAL

Information Management – IM 341; IM 342

REVISE OPERATIONS MANAGEMENT COLLATERAL

Operations Management – OMS 341; OMS 441 or OMS 421

REVISE LOGISTICS DUAL CONCENTRATION

- On page 149 of the 2004-2005 Undergraduate Catalog, Statistics Major with Logistics Dual Concentration, Revise to

STAT 320 (3)  
STAT 365 (3)  
STAT 471 (3)  
STAT 474 or 475 (3)

LOG 310 (3)  
LOG 411 (3)  
LOG 421 or 413 (3)  
LOG 460 (3)

REVISE MARKETING DUAL CONCENTRATION

- On page 149 of the 2004-2005 Undergraduate Catalog, Statistics Major with Marketing Dual Concentration, revise to

1) STAT 320 (3)  
STAT 330 (3)  
STAT 471 (3)  
STAT 474 or 475 (3)

Or

2) STAT 320 (3)  
STAT 471 (3)  
STAT 474 (3)  
STAT 475 (3)

MKT 340 (3)  
MKT 350 (3)  
MKT 460 (3)  
Marketing Electives – 4 hours from MKT 452 (2), 456 (2), 458 (2)

## COLLEGE OF BUSINESS ADMINISTRATION SHOWCASES

### REVISE ACCOUNTING MAJOR · COLLATERAL OPTION

➤ On page 136 of the 2004-2005 Undergraduate Catalog, revise showcase to

### Requirements for the Bachelor of Science in Business Administration · Accounting Major · Collateral Option

Freshman	Hours Credit
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* .....	
or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Accounting 301 .....	3
Information Management 341 .....	3
Finance 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Accounting 311 .....	3
Accounting 321 .....	3
Accounting 411 .....	3
<sup>4</sup> Collateral .....	3
<b>Senior</b>	
Accounting 414 or 431 .....	3
Business Law 301 .....	3
Cultures and Civilizations* .....	3
Management 401 .....	3
<sup>4</sup> Collateral .....	6
Electives .....	6-10
<hr/> Total 120 <hr/>	

#### Accounting Collateral Options:

Finance: FIN 425; FIN 435; and FIN 455 or ACCT 414

Information Management: IM 342; IM 442; IM 443

International Business: ECON 329; BA 371; MGT 471

Logistics: LOG 310; LOG 411; LOG 421

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

<sup>4</sup>In the spring of their Junior year, students normally make the decision whether to enter the job market upon graduation or apply to the Master of Accountancy program. Accounting 414 and 431 are both prerequisites to the MAcc program; therefore, students planning to enter the MAcc program should take Accounting 414 or 431 (whichever was not taken to satisfy the Major requirement) instead of Finance 455 in the Finance collateral, instead of IM 442 in the Information Management collateral, instead of Management 471 in the International Business collateral, and instead of Logistics 421 in the Logistics collateral.

## REVISE BUSINESS STUDIES MAJOR

➤ On page 137 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Business Studies Major**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Cultures and Civilizations* .....	3
Economics 311 or 313 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Accounting 301 .....	3
Human Resource Development 340 .....	3
<b>Senior</b>	
Finance 425 or 435 .....	3
Information Management 341 .....	3
Logistics 310 or Operations and Management Science 341 .....	3
Marketing 340 .....	3
Statistics 320 .....	3
Business Law 301 .....	3
Management 401 .....	3
Electives .....	9-13
Total 120	

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.



## REVISE ECONOMICS MAJOR -TRADITIONAL OPTION

➤ On page 138 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Economics Major - Traditional Option**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* .....	6 or 8
or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Economics 311 .....	3
Economics 313 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Economics Major Coursework .....	6
<b>Senior</b>	
Business Law 301 .....	3
Economics Electives (Four additional Economics courses) .....	12
Cultures and Civilizations* .....	3
Management 401 .....	3
Electives .....	9-13
<hr/> Total 120 <hr/>	

**Economics Major Coursework Options (choose one area of focus):**

International Economics – ECON 321; ECON 323

Industrial Organization – ECON 331; ECON 435

Public Economics – ECON 471; ECON 472

Quantitative Economics – ECON 381, ECON 482 (Math 141-142 prereq)

Money/Macroeconomics – ECON 351; ECON 413

Regional/Urban Economics – ECON 361; FIN 485

Environmental Economics – ECON 462; Agricultural Economics 470 or Geology 455 (Geology 101 prereq)

Labor Economics – ECON 341; MGT 411

Health Economics – ECON 436; Public Health 300

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

REVISE ECONOMICS MAJOR · COLLATERAL OPTION

➤ On page 139 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration · Economics Major · Collateral Option**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Economics 311 .....	3
Economics 313 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Collateral.....	6
<b>Senior</b>	
Business Law 301 .....	3
Collateral.....	6
Economics Electives (Four additional Economics courses).....	6
Cultures and Civilizations* .....	3
Management 401 .....	3
Electives .....	9-13
<b>Total 120</b>	

**Economics Collateral Options:**

Industrial Organization and Finance – ECON 331; ECON 435; FIN 425; FIN 455

Quantitative Economics and Math – ECON 381; ECON 482 (Math 141-142 prereq); MAT 241; MAT 251

Quantitative Economics and Statistics – ECON 381; ECON 482 (Math 141-142 prereq); STAT 472 (Stat 320 prereq); STAT 475 (Stat 320 prereq)

Money/Macroeconomics and Finance – ECON 351; ECON 413; FIN 425; FIN 435

\*Meets University General Education Requirement.

REVISE FINANCE MAJOR - COLLATERAL OPTION

➤ On page 139 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Finance Major - Collateral Option**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Law 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Finance 425 .....	3
Finance 435 .....	3
Collateral .....	6
<b>Senior</b>	
Collateral .....	3
Finance 455 .....	3
<sup>4</sup> Finance Electives .....	6
Cultures and Civilizations* .....	3
Management 401 .....	3
Electives .....	9-13
<hr/> Total 120 <hr/>	

**Finance Collateral Options:**

- Accounting - ACC 301; ACC 321; and any one of ACC 311, IM 341, or ACC 431
- Economics - ECON 311; ECON 313; and choice of either ECON 321 or ECON 482 (Math 141-142 Prerequisite)
- Information Management - IM 341; IM 342; IM 442 or 443
- International Business - ECON 329; BA 371; MGT 471
- Logistics - LOG 310; LOG 411; LOG 421

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

<sup>4</sup>Finance Electives – 6 hours from: Finance 402, 475, 485, 493, 495.

REVISE HUMAN RESOURCE DEVELOPMENT MAJOR · COLLATERAL OPTION

➤ On page 141 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration · Human Resource Development Major · Collateral Option**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Law 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Human Resource Development 340 .....	3
Collateral .....	3
Cultures and Civilizations* .....	3
<b>Senior</b>	
Human Resource Development 440 .....	3
Human Resource Development 452 .....	3
Collateral .....	6
Human Resource Development 455 .....	3
Human Resource Development 479 .....	3
Management 401 .....	3
Electives .....	9-13
<b>Total 120</b>	

**Human Resource Development Collateral Options:**

Information Management – IM 341; IM 342; IM 442 or 443

International Business – ECON 329; BA 371; MGT 471

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

ADD DUAL CONCENTRATION WITH MANAGEMENT

- Insert Dual Concentration with Management showcase after the Collateral Option showcase

**Requirements for the Bachelor of Science in Business Administration - Human Resource Development Major - Dual Concentration with Management**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Law 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Human Resource Development 340.....	3
Information Management 341 .....	3
Cultures and Civilizations* .....	3
<b>Senior</b>	
Human Resource Development 440.....	3
Human Resource Development 452.....	3
Management 431 .....	3
Management 471 or 481.....	3
Human Resource Development 455.....	3
Human Resource Development 479.....	3
Management 401 .....	3
Electives.....	9-13
<hr/> Total 120	

\*Meets University General Education Requirement.

REVISE MANAGEMENT MAJOR

DROP ALL COLLATERAL OPTIONS

- On page 142 of the 2004-2005 Undergraduate Catalog replace the Management Major – Collateral Option showcase with the Dual Concentration Showcase (Freshman and Sophomore Years)

**Requirements for the Bachelor of Science in Business Administration - Management Major - Dual Concentration (Freshman and Sophomore Years)**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* or 141*-142* ...	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101.....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207).....	3
Business Administration 201.....	4
<sup>2</sup> Arts and Humanities* .....	6

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

ADD DUAL CONCENTRATION WITH HUMAN RESOURCE DEVELOPMENT

- In the catalog, insert the following Dual Concentration with Human Resource Development showcase following the previous Freshman/Sophomore showcase

**Requirements for the Bachelor of Science in Business Administration - Management Major - Dual Concentration with Human Resource Development**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Human Resource Development 340.....	3
Information Management 341 .....	3
Operations and Management Science 341.....	3
Cultures and Civilizations* .....	3
<b>Senior</b>	
Business Law 301 .....	3
Human Resource Development 440.....	3
Human Resource Development 452.....	3
Management 431 .....	3
Management 471 or 481.....	3
Human Resource Development 455.....	3
Management 401 .....	3
Electives .....	9-13
<b>Total 120</b>	

\*Meets University General Education Requirement.

REVISE DUAL CONCENTRATION WITH INFORMATION MANAGEMENT

- On page 142 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Management Major - Dual Concentration with Information Management**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Information Management 341 .....	3
Operations and Management Science 341.....	3
Cultures and Civilizations* .....	3
Human Resource Development 340.....	3
<b>Senior</b>	
Business Law 301 .....	3
Management 431 .....	3
Management 471 or 481.....	3
Information Management 342.....	3
Information Management 442.....	3
Information Management 443.....	3
Management 401 .....	3
Electives .....	9-13
<b>Total 120</b>	

\*Meets University General Education Requirement.

## REVISE DUAL CONCENTRATION WITH INTERNATIONAL BUSINESS

➤ On page 145-146 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Management Major - Dual Concentration with International Business**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Information Management 341 .....	3
Operations and Management Science 341.....	3
Cultures and Civilizations* .....	3
<sup>4</sup> Economics 329 .....	3
<b>Senior</b>	
Business Law 301 .....	3
Management 431 .....	3
Human Resource Development 340.....	3
<sup>4</sup> Business Administration 371 .....	3
<sup>4</sup> Management 471 .....	3
<sup>4</sup> Management 481 .....	3
Management 401 .....	3
Electives .....	9-13
	<u>Total 120</u>

\*Meets University General Education Requirement.

<sup>4</sup>Coursework for the International Business Dual Concentration may be substituted for a program of study as approved by an advisor.

REVISE LOGISTICS MAJOR - COLLATERAL OPTION

➤ On page 143 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Logistics Major - Collateral Option**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* .....	6 or 8
or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Cultures and Civilizations* .....	3
Logistics 310 .....	3
Collateral .....	3
Business Law 301 .....	3
<b>Senior</b>	
Logistics 411 .....	3
Logistics 421 .....	3
Collateral .....	6
Logistics 412 or 413 .....	3
Logistics 460 .....	3
Management 401 .....	3
Electives .....	9-13
<hr/> Total 120	

**Logistics Collateral Options:**

Information Management – IM 341; IM 342; IM 442 or 443

International Business – ECON 329; BA 371; MGT 471

Marketing – MKT 340; MKT 350; any two of MKT 452, MKT 456, or MKT 458\* (reduce elective hours by one)

Operations Management – OMS 341; OMS 441; OMS 410; OMS 421

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.



REVISE DUAL CONCENTRATION WITH INFORMATION MANAGEMENT

➤ On page 144 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Logistics Major - Dual Concentration with Information Management**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Logistics 310 .....	3
Information Management 341 .....	3
Business Law 301 .....	3
<b>Senior</b>	
Logistics 411 .....	3
Logistics 421 or 413.....	3
Information Management 342.....	3
Information Management 442.....	3
Information Management 443.....	3
Logistics 460 .....	3
Management 401 .....	3
Electives .....	9-13
<hr/> Total 120	

\*Meets University General Education Requirement.

REVISE DUAL CONCENTRATION WITH INTERNATIONAL BUSINESS

➤ On page 144 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Logistics Major - Dual Concentration with International Business**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Logistics 310 .....	3
<sup>4</sup> Economics 329 .....	3
Business Law 301 .....	3
<b>Senior</b>	
Logistics 411 .....	3
Logistics 421 or 413.....	3
<sup>4</sup> Management 471 .....	3
<sup>4</sup> Business Administration 371 .....	3
<sup>4</sup> Management 481 .....	3
Logistics 460 .....	3
Management 401 .....	3
Electives .....	9-13
<hr/> Total 120	

\*Meets University General Education Requirement.

<sup>4</sup>Coursework for the International Business Dual Concentration may be substituted for a program of study as approved by an advisor.

## REVISE DUAL CONCENTRATION WITH MARKETING

➤ On page 144 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Logistics Major - Dual Concentration with Marketing**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Logistics 310 .....	3
Marketing 340 .....	3
Business Law 301 .....	3
<b>Senior</b>	
Logistics 411 .....	3
Logistics 421 or 413.....	3
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458.....	4
Logistics 460 .....	3
Marketing 460 .....	3
Management 401 .....	3
Electives .....	8-12
<hr/> Total 120 hours	

\*Meets University General Education Requirement.

## REVISE DUAL CONCENTRATION WITH OPERATIONS MANAGEMENT

➤ On page 145 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Logistics Major - Dual Concentration with Operations Management**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Logistics 310 .....	3
Operations and Management Science 341.....	3
Business Law 301 .....	3
<b>Senior</b>	
Logistics 411 .....	3
Logistics 421 or 413.....	3
Operations and Management Science 441.....	3
Operations and Management Science 421.....	3
Operations and Management Science 410.....	3
Logistics 460 .....	3
Management 401 .....	3
Electives.....	9-13
<hr/> Total 120	

\*Meets University General Education Requirement.

## REVISE DUAL CONCENTRATION WITH STATISTICS

➤ On page 145 of the 2004-2005 Undergraduate Catalog, revise showcase to

**Requirements for the Bachelor of Science in Business Administration - Logistics Major - Dual Concentration with Statistics**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Logistics 310.....	3
Statistics 320.....	3
Business Law 301 .....	3
<b>Senior</b>	
Logistics 411 .....	3
Logistics 421 or 413.....	3
Statistics 365.....	3
Statistics 471.....	3
Statistics 474 or 475 .....	3
Logistics 460 .....	3
Management 401 .....	3
Electives .....	9-13
	<hr/>
	Total 120

\*Meets University General Education Requirement.

**REVISE MARKETING MAJOR - COLLATERAL OPTION**

➤ On page 145 of the 2004-2005 Undergraduate Catalog, revise the Marketing Major – Collateral Option showcase to

**Requirements for the Bachelor of Science in Business Administration - Marketing Major - Collateral Option**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* .....	6 or 8
or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Cultures and Civilizations* .....	3
Marketing 340 .....	3
Marketing 345 .....	2
Business Law 301 .....	3
Collateral .....	3
<b>Senior</b>	
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458 .....	4
Collateral .....	6
Management 401 .....	3
Marketing 460 .....	3
Electives .....	9-13
<hr/> Total 120	

**Marketing Collateral Options:**

Information Management – IM 341; IM 342; IM 442 or 443

International Business – ECON 329; BA 371; MGT 471

Logistics – LOG 310; LOG 411; LOG 421

Resource Management – ACC 321; FIN 435; FIN 455

\*Meets University General Education Requirement

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

## REVISE DUAL CONCENTRATION WITH INFORMATION MANAGEMENT

- On page 146 of the 2004-2005 Undergraduate Catalog, revise the Dual Concentration with Information Management showcase to

**Requirements for the Bachelor of Science in Business Administration - Marketing Major - Dual Concentration with Information Management**

Junior	Hours Credit
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Cultures and Civilizations* .....	3
Marketing 340 .....	3
Business Law 301 .....	3
Information Management 341 .....	3
<b>Senior</b>	
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458 .....	4
Information Management 342 .....	3
Information Management 442 .....	3
Information Management 443 .....	3
Management 401 .....	3
Marketing 460 .....	3
Electives .....	8-12
<hr/> Total 120	

\*Meets University General Education Requirement

## REVISE DUAL CONCENTRATION WITH INTERNATIONAL BUSINESS

- On page 146 of the 2004-2005 Undergraduate Catalog, revise the Dual Concentration with International Business showcase to

**Requirements for the Bachelor of Science in Business Administration - Marketing Major - Dual Concentration with International Business**

Junior	Hours Credit
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Cultures and Civilizations* .....	3
Marketing 340 .....	3
Business Law 301 .....	3
<sup>4</sup> Economics 329 .....	3
<b>Senior</b>	
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458 .....	4
<sup>4</sup> Management 471 .....	3
<sup>4</sup> Business Administration 371 .....	3
<sup>4</sup> Management 481 .....	3
Management 401 .....	3
Marketing 460 .....	3
Electives .....	8-12
<hr/> Total 120	

\*Meets University General Education Requirement.

<sup>4</sup>Coursework for the International Business Dual Concentration may be substituted for a program of study as approved by an advisor.

REVISE DUAL CONCENTRATION WITH LOGISTICS

- On page 146-147 of the 2004-2005 Undergraduate Catalog, revise the Dual Concentration with Logistics showcase to

**Requirements for the Bachelor of Science in Business Administration - Marketing Major - Dual Concentration with Logistics**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Marketing 340 .....	3
Business Law 301 .....	3
Logistics 310 .....	3
<b>Senior</b>	
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458.....	4
Logistics 411 .....	3
Logistics 421 or 413.....	3
Management 401 .....	3
Marketing 460 .....	3
Logistics 460 .....	3
Electives .....	8-12
Total 120	

\*Meets University General Education Requirement.

REVISE DUAL CONCENTRATION WITH STATISTICS

- On page 147 of the 2004-2005 Undergraduate Catalog, revise the Dual Concentration with Statistics showcase to

**Requirements for the Bachelor of Science in Business Administration - Marketing Major - Dual Concentration with Statistics**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Marketing 340 .....	3
Business Law 301 .....	3
Statistics Dual Concentration .....	3
<b>Senior</b>	
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458.....	4
Statistics Dual Concentration .....	9
Management 401 .....	3
Marketing 460 .....	3
Electives .....	8-12
Total 120	

**Marketing and Statistics Dual Concentration Options:**

- 1) STAT 320; STAT 330; STAT 471; STAT 474 or 475
- 2) STAT 320; STAT 471; STAT 474; STAT 475

\*Meets University General Education Requirement.

## REVISE PUBLIC ADMINISTRATION MAJOR

➤ On page 147 of the 2004-2005 Undergraduate Catalog, revise the Public Administration Major showcase to

**Requirements for the Bachelor of Science in Business Administration - Public Administration Major**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6	
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* .....		6
or 141*-142* .....	6 or 8	
Cultures and Civilizations: Intermediate Foreign Language* .....	6	
Natural Sciences* .....	6 or 8	
Social Sciences* .....	3	
Oral Communication: Communication Studies 210* or 240* .....	3	
Business Administration 101 .....	1	
<b>Sophomore</b>		
Accounting 200 (Honors 207) .....	3	
Social Sciences: Economics 201* (Honors 207*) .....	4	
Written Communication: English 255*, 295*, or 355* .....	3	
Ethics: Philosophy 243, 244, or 443 .....	3	
Statistics 201 (Honors 207) .....	3	
Business Administration 201 .....	4	
<sup>2</sup> Arts and Humanities* .....	6	
<b>Junior</b>		
Business Administration 331-332 .....	4	
Business Administration 341-342 .....	4	
Finance 301 .....	3	
Business Administration 353 .....	3	
Business Administration 361 .....	3	
Political Science 340 .....	3	
Cultures and Civilizations* .....	3	
Economics 311 .....	3	
Electives .....	3	
<b>Senior</b>		
Business Law 301 .....	3	
Economics 471 .....	3	
Economics 472 .....	3	
Political Science 441 .....	3	
Management 401 .....	3	
<sup>4</sup> Economics or Political Science Electives .....	9	
Electives .....	6-10	
		<b>Total 120</b>

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

<sup>4</sup>Economics or Political Science Electives – Any three upper-division courses in Economics or Political Science.

## REVISE STATISTICS MAJOR - COLLATERAL OPTION

➤ On page 148 of the 2004-2005 Undergraduate Catalog, revise the Statistics Major – Collateral Option showcase to

**Requirements for the Bachelor of Science in Business Administration - Statistics Major - Collateral Option**

<b>Freshman</b>	<b>Hours Credit</b>
<sup>1,2</sup> Written Communication: English 101*, 102* .....	6
<sup>3</sup> Quantitative Reasoning: Mathematics 123*-125* .....	6 or 8
or 141*-142* .....	6 or 8
Cultures and Civilizations: Intermediate Foreign Language* .....	6
Natural Sciences* .....	6 or 8
Social Sciences* .....	3
Oral Communication: Communication Studies 210* or 240* .....	3
Business Administration 101 .....	1
<b>Sophomore</b>	
Accounting 200 (Honors 207) .....	3
Social Sciences: Economics 201* (Honors 207*) .....	4
Written Communication: English 255*, 295*, or 355* .....	3
Ethics: Philosophy 243, 244, or 443 .....	3
Statistics 201 (Honors 207) .....	3
Business Administration 201 .....	4
<sup>2</sup> Arts and Humanities* .....	6
<b>Junior</b>	
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Statistics 365 .....	3
Business Administration 353 .....	3
Business Administration 361 .....	3
Statistics 320 .....	3
Statistics 330 .....	3
<sup>4</sup> Statistics Electives .....	3
Collateral .....	3
<b>Senior</b>	
Business Law 301 .....	3
Statistics 471 .....	3
<sup>4</sup> Statistics Electives .....	3
Collateral .....	3
Cultures and Civilizations* .....	3
Management 401 .....	3
Electives .....	9-13
<hr/> Total 120 <hr/>	

**Statistics Collateral Options:**

Economics – ECON 311 or ECON 313; ECON 381

Finance – FIN 425; and one of FIN 435, 455, 475, 485

Information Management – IM 341; IM 342

Logistics – LOG 310; LOG 411; LOG 493 (1 hour)

Marketing – MKT 340; MKT 350

Operations Management – OMS 341; OMS 410 or 421

\*Meets University General Education Requirement.

<sup>1</sup>Must be completed by the end of the Freshman Year.

<sup>2</sup>Students who complete English 118, Honors English Composition, with a grade of A or B will complete their English Composition requirement by choosing English 102 or a sophomore literature course in the English Department. If the sophomore literature course appears on the list for the Arts and Humanities requirement, the course may also be counted toward the Arts and Humanities requirement.

<sup>3</sup>Mathematics – Mathematics 125 or 141 are prerequisites for Statistics 201, which is taken during the second semester of the Sophomore Year. As a result, either Mathematics 125 or 141 must be completed by the end of the first semester of the Sophomore Year. Students testing into Mathematics 100, 110, 115, or 119 must complete these courses during their Freshman Year to ensure that Mathematics 125 or 141 can be completed during the first semester of the Sophomore Year. Students who have not completed Mathematics 125 by the end of their Freshman Year should take Mathematics 125 in the first semester of their Sophomore Year, prior to taking Mathematics 123.

<sup>4</sup>Statistics Electives – Choose any two 400-level courses from Statistics or Mathematics 423 and 425.



REVISE DUAL CONCENTRATION WITH LOGISTICS

- On page 149 of the 2004-2005 Undergraduate Catalog, revise the Dual Concentration with Logistics showcase to

**Requirements for the Bachelor of Science in Business Administration - Statistics Major - Dual Concentration with Logistics**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Statistics 365.....	3
Business Administration 353.....	3
Business Administration 361.....	3
Logistics 310.....	3
Statistics 320.....	3
Cultures and Civilizations* .....	3
<b>Senior</b>	
Business Law 301 .....	3
Statistics 471.....	3
Statistics 474 or 475 .....	3
Logistics 411 .....	3
Logistics 421 or 413.....	3
Logistics 460.....	3
Management 401 .....	3
Electives.....	9-13
<hr/> Total 120	

\*Meets University General Education Requirement.

REVISE DUAL CONCENTRATION WITH MARKETING

- On page 149 of the 2004-2005 Undergraduate Catalog, revise the Dual Concentration with Marketing showcase to

**Requirements for the Bachelor of Science in Business Administration - Statistics Major - Dual Concentration with Marketing**

<b>Junior</b>	<b>Hours Credit</b>
Business Administration 331-332 .....	4
Business Administration 341-342 .....	4
Finance 301 .....	3
Business Administration 353.....	3
Business Administration 361.....	3
Cultures and Civilizations* .....	3
Marketing 340.....	3
Business Law 301 .....	3
Statistics Dual Concentration.....	3
<b>Senior</b>	
Marketing 350 .....	3
Marketing Electives: Marketing 452, 456, or 458.....	4
Statistics Dual Concentration.....	9
Management 401 .....	3
Marketing 460 .....	3
Electives .....	8-12
<hr/> Total 120	

**Statistics and Marketing Dual Concentration Options:**

- 1) STAT 320; STAT 330; STAT 471; STAT 474 or 475
- 2) STAT 320; STAT 471; STAT 474; STAT 475

\*Meets University General Education Requirement.

**COLLEGE OF COMMUNICATION AND INFORMATION****ALL CHANGES EFFECTIVE: FALL 2005****Part I. Course Changes****SCHOOL OF COMMUNICATION STUDIES****Communication Studies (250)**

REVISE DESCRIPTION AND ADD PREREQUISITE

**201 Introduction to Communication Studies (3)** Fundamental theories and practices with particular reference to interpersonal, group, organizational, and public communication. Prereq: Communication and Information 150.

REVISE DESCRIPTION AND ADD PREREQUISITE

**207 Honors: Introduction to Communication Studies (3)** Analysis and exploration of the fundamental theories and practices of communication studies. Admission by consent of the school. Prereq: Communication and Information 150.

REVISE PREREQUISITE

**340 Research Methods in Communication Studies (3)** Prereq: 201; Mathematics 115 or Statistics 201.

REVISE DESCRIPTION AND PREREQUISITE

**350 Communication Theory (3)** Analysis and critique of fundamental theories with particular reference to interpersonal, group, organizational, and public communication. Prereq: 201, 340.

REVISE PRIMARY COURSE TO DROP CROSS-LISTING

**320 Interpersonal Communication Processes (3)**

REVISE COURSE DESCRIPTION AND REPEATABILITY

**400 Topics in Communication Studies (3)** Topics, scope of subject matter, and prerequisites to be determined by school. May be repeated. Maximum 6 hours.

REVISE CREDIT HOURS, DESCRIPTION, PREREQUISITE, REPEATABILITY, CREDIT RESTRICTION FOR MAJOR

**491 Foreign Study (1-6)** Participation in school-sponsored study-abroad program. Application forms available in school office. Major credit limited to 3 hours. Prereq: Junior/senior standing with at least a 2.75 GPA; consent of supervising faculty member and school prior to registration (see school for proposal deadlines). May be repeated. Maximum 6 hours.

REVISE CREDIT HOURS, DESCRIPTION, REPEATABILITY, CREDIT RESTRICTION FOR MAJOR

**493 Independent Study (1-6)** Selected readings/research in an area of communication studies to be determined by the student in consultation with supervising faculty member and, ordinarily, in an area of study not covered by school curriculum. Application forms available in school office. Major credit limited to 3 hours. Prereq: Junior/senior standing with at least a 3.0 GPA; consent of supervising faculty member and school prior to registration (see school for proposal deadlines). May be repeated. Maximum 6 hours.

REVISE DESCRIPTION AND PREREQUISITE

**499 Proseminar in Communication Studies (3)** Major theoretical perspectives in communication studies, their interrelationships and applications; consideration of the significance and ethical implications of communication studies in modern society. Prereq: Senior standing, completion of 201, 340, 350 and at least 12 additional hours of communication studies courses.

## SCHOOL OF INFORMATION SCIENCES

### Information Sciences (560)

DROP

485 Introduction to Electronic Communications and Information Resources on the Internet (3)

486 Advanced Electronic Communications and Information Resources on the Internet (3)

490 Information Environment (3)

## Part II. Program Changes

### COLLEGE OF COMMUNICATION AND INFORMATION

ADD TWO STUDY ABROAD PROGRAMS

- Revise catalog text to reflect this addition—Page 151, Column 1, Paragraph 4 to

Exchange programs with the Dutch School of Journalism and Communication, Utrecht, and the Danish School of Journalism, Arhus, offer students an opportunity for a European semester. Tennessee students study European journalism and communication in the Netherlands or Denmark, but maintain their enrollment at the University of Tennessee, Knoxville, and pay only room, board, and transportation costs. A similar exchange program with Escuela de Comunicacion Monica Herrera in Ecuador also exists. Students also have an opportunity to study abroad as part of a summer study abroad program in Paris or as part of a communication consortium at Paderno del Grappa in Italy.

REVISE CATALOG TEXT TO ALPHABETIZE ASSOCIATIONS

- Page 151, Columns 1-2, Paragraph 5 to

The college, or one of its units, is a member of the Advertising Research Foundation; American Academy of Advertising; American Advertising Federation; American Library Association; Association for Education in Journalism and Mass Communication; Association of Library and Information Sciences Education; Association of Schools of Journalism and Mass Communication; Broadcast Education Association; National Communication Association; Public Relations Society of American; Society of Professional Journalists; Southern States Communication Association; Special Libraries Association; Tennessee Library Association; and Tennessee Press Association.

CLARIFICATION OF MINOR IN COMMUNICATION AND INFORMATION (COMMUNICATION STUDIES MAJORS CANNOT USE COMMUNICATION STUDIES COURSES FOR MINOR)

- Page 152, line 1 REVISE catalog text to

**Minor in Communication and Information\***  
[and insert the following note at the end of section]

\*Communication Studies majors may not use communication studies courses to fulfill requirements for the minor.

CLARIFICATION OF PROGRESSION REQUIREMENTS

- Page 152, "Progression Requirements" section, third paragraph to

At the completion of 45 hours, undecided students must be affiliated with the college as pre-majors or majors. (See the University of Tennessee, Knoxville, policy on University Students under Academic Policies and Procedures.) Communication and Information pre-majors must be accepted into a major before completion of 60 hours. Students transferring from other University of Tennessee colleges with 60 or more hours of coursework must be eligible for admission to a major upon completion of the college gateway course, Communication and Information 150. Until students progress to a major, they may not enroll in courses numbered 300 or above without approval.

**SCHOOL OF COMMUNICATION STUDIES**

## REVISE COMMUNICATIONS STUDIES MAJOR

- On pages 153-154 of the 2004-2005 Undergraduate Catalog, revise the Communication Studies showcase to

**COMMUNICATION STUDIES MAJOR****Requirement for the Bachelor of Arts in Communication - Communication Studies Major**

	<b>Hours Credit</b>
<b>Freshman</b>	
Communication and Information 150.....	3
Communication Studies 201.....	3
English 101*, 102*.....	6
<sup>1</sup> Quantitative Reasoning Elective*.....	3
Psychology 110*.....	3
<sup>2</sup> Natural Sciences*.....	8
<sup>3</sup> Arts and Humanities Elective*.....	3
General Elective.....	1
<b>Sophomore</b>	
Communication Studies 210* or 240*.....	3
Communication Studies 250 or 270.....	3
<sup>4</sup> Social Sciences Elective*.....	3
History 241*,242*.....	6
Mathematics 115* or Statistics 201*.....	3
<sup>3</sup> Arts and Humanities Elective*.....	3
<sup>5</sup> Foreign Language*.....	6
<sup>6</sup> Advanced Composition Elective*.....	3
<b>Junior</b>	
Communication Studies 300, 310, 320, or 330.....	3
Communication Studies 340.....	3
Communication Studies 350.....	3
<sup>7</sup> Communication Studies Electives.....	6
<sup>8</sup> College Elective.....	3
<sup>9</sup> Arts and Sciences Electives.....	6
General Electives.....	6
<b>Senior</b>	
Communication Studies 499.....	3
<sup>7</sup> Communication Studies Elective.....	3
<sup>9</sup> Arts and Sciences Electives.....	6
<sup>8</sup> College Electives.....	6
General Electives.....	12
<b>Total</b>	<b>120</b>

\*Meets University General Education Requirement.

<sup>1</sup>Quantitative Reasoning (QR) Elective: Mathematics 113, 123, 125, 141, 142, 151, or 152.

<sup>2</sup>This requirement is met by taking two courses from the General Education Natural Sciences (NS) list. One of these courses must have a laboratory.

<sup>3</sup>Arts and Humanities Electives are any two courses from the Arts and Humanities (AH) General Education list.

<sup>4</sup>Social Sciences Elective to be chosen from the Social Sciences (SS) General Education list.

<sup>5</sup>Six hours of one intermediate foreign language is required.

<sup>6</sup>Advanced composition course: English 255, 295, 355, 360, 455; Journalism and Electronic Media 200.

<sup>7</sup>Communication Studies electives are three courses, two of which (six hours) must be 400-level courses, and no more than one of which (three hours) may be a 200-level course. Students who complete Communication Studies 210 may not count Communication Studies 240 toward the major. Students who complete Communication Studies 240 may not count Communication Studies 210 toward the major. Communication Studies 445 may not be counted toward the major. A total of no more than three hours each of Communication Studies 491 and 493 may be counted toward the major.

<sup>8</sup>College electives are three courses (nine hours) from Advertising, Information Sciences, Journalism and Electronic Media, or Public Relations. These courses must come from at least two different areas of study.

<sup>9</sup>Arts and Sciences Electives are four courses (12 hours) to be taken from the following programs: African and African-American Studies, American Studies, Anthropology, Art History, Cinema Studies, Classics, Economics, English, French, Geography, German, History, Italian, Musicology, Philosophy, Political Science, Psychology, Religious Studies, Russian, Sociology, Spanish, Theatre and Women's Studies. Six hours of these courses must be at the 300 or 400 level.

**MINOR IN COMMUNICATION STUDIES**

	<b>Hours Credit</b>
<b>Prerequisite to minor:</b>	
Communication and Information 150.....	3
<b>Required:</b>	
Communication Studies 201 or 207.....	3
<b>Electives:</b>	
Communication studies courses (6 credit hours must be at the 400 level; no more than 3 hours may be at the 200 level; 210, 240, 445, 491, and 493 do not count toward the minor) .....	12
<hr/> Total 18	

**SCHOOL OF JOURNALISM AND ELECTRONIC MEDIA**

REVISE JOURNALISM AND ELECTRONIC MEDIA MAJOR

- On page 155 of the 2004-2005 Undergraduate Catalog, change footnote 3 (Quantitative Reasoning Electives) as follows

Delete Mathematics 110\*  
Add Mathematics 113\*

## COLLEGE OF EDUCATION, HEALTH, AND HUMAN SCIENCES

### ALL CHANGES EFFECTIVE: FALL 2005

#### COLLEGE OF EDUCATION, HEALTH, AND HUMAN SCIENCES

##### ADD CATALOG TEXT

- On page 159 of the 2004-2005 Undergraduate Catalog, add the following statement to the first column under the heading "Teacher Education at the University of Tennessee, Knoxville" as required by NCATE:

The Teacher Education Program at the University of Tennessee is accredited by the National Council for the Accreditation of Teacher Education (NCATE), [www.ncate.org](http://www.ncate.org). This accreditation covers the initial teacher preparation programs and advanced educator preparation programs.

##### ADD GENERAL EDUCATION TEST AND SENIOR STUDENT MAJOR FIELD TEST REQUIREMENT

- On page 159 of the 2004-2005 Undergraduate Catalog, add the following two paragraphs immediately following the "Grading" section in the College section of the catalog:

##### **Senior Student General Education Test**

The Tennessee Higher Education Commission (THEC) requires each public institution of higher education to evaluate the general education skills of the senior class. The College of Education, Health, and Human Sciences requires each of its senior students to take this general education test prior to graduation. The test results enable the University of Tennessee, Knoxville, to evaluate its general education program and to qualify for needed funding from the State of Tennessee. Students enrolled in programs that are scheduled to take a major field test are exempt from the general education testing.

##### **Senior Student Major Field Test**

The Tennessee Higher Education (THEC) requires that each public institution for higher education to assess the knowledge and expertise of students within each major area of study. Each year, a subset of all major fields of study on campus is required to test all graduating seniors from those respective fields. The results from these tests enable the University of Tennessee, Knoxville, to evaluate and, where necessary, improve the quality of major fields of study. Students are informed in their senior year if they are required to take a major field test. Students enrolled in a major field of study that is scheduled to test majors are exempt from the general education testing that particular year.

##### REVISE ADMISSION TO TEACHER LICENSURE

- On page 159 of the 2004-2005 Undergraduate Catalog, in the first column under the Admission to Teacher Education Heading, revise #1b:

(b) GPA based on completion of 45 credit hours Agriculture Education and Special Education, 60 hours Elementary Education, 75 hours Secondary Education, and 90 hours Early Childhood Education;

#### DEPARTMENT OF CHILD AND FAMILY STUDIES

##### I. Course Changes

##### **Child and Family Studies (245)**

##### DROP SECONDARY CROSS-LISTED COURSE

##### **102 Microcomputer Applications (3)** (*See Retail and Consumer Sciences 102.*)

##### ADD

**385 Diversity Among Children and Families (3)** Social class, race, ethnicity, culture, and religion are studied singly and in combination with gender and disabilities as shapers of the life chances and opportunities of individuals, children and families. Prereq: 220 or consent of instructor.

##### REVISE TITLE AND DESCRIPTION

**470 Practicum: Pre-K Teaching (6-12)** Responsibility for planning and guiding groups of infants, toddlers, or preschoolers under supervision of classroom teacher and coordinator. Includes weekly seminar. Fall and Spring student teaching begins on the first day of registration and ends on last day of final examination period (student teaching follows the CDL calendar and does not include Fall or Spring break). Summer student teaching begins the day following Spring commencement and ends on the day before

Summer graduation. Priority for summer student teaching is given to students who have completed all program requirements, except student teaching, prior to the Summer session. Prereq: 350 and 351, completion of all progression requirements for the practicum. Satisfactory/No Credit grading only.

REVISE PREREQUISITE, CREDIT HOURS, REPETITION

**490 Practicum: Research (3-12)** A supervised research experience with emphasis on the identification and examination of key aspects of research methods: constructs, research questions and hypotheses, research design, measurement, and analysis. Prereq: Completion of all progression requirements for the practicum. May be repeated. Maximum 12 hours.

REVISE PREREQUISITE

**350 Early Childhood Education I: Environments for Children (4)** Prereq: 106 and 211, or consent of instructor.

**351 Early Childhood Education II: Curricula and Program Development for Young Children (4)** Prereq: 350.

REVISE REGISTRATION RESTRICTION

**440 Family Life and Parent Education (3)** For Child and Family Studies majors only.

## II. Program Changes

### REVISE CHILD AND FAMILY STUDIES MAJOR

On page 161 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> and 2<sup>nd</sup> columns, revise the B.S. in Human Ecology—Child and Family Studies Major showcase (curriculum and footnotes) to

### Requirements for the Bachelor of Science in Human Ecology - Child and Family Studies Major

Freshman	Hours	Credit
Child and Family Studies 101 .....	2	
English 101*, 102* .....	6	
<sup>1</sup> Natural Sciences Electives* .....	8	
<sup>2</sup> Arts and Humanities Electives* .....	6	
Mathematics 113* or 123* .....	3	
Mathematics 115* or 202* .....	3	
<b>Sophomore</b>		
Child and Family Studies 210* .....	3	
Child and Family Studies 220* .....	3	
<sup>3</sup> History Electives .....	6	
<sup>4</sup> Foreign Language Electives* .....	6	
<sup>5</sup> Social Sciences Electives* .....	6	
<sup>6</sup> Specialty Area Electives .....	6	
<sup>7</sup> Elective .....	3	
<b>Junior</b>		
Child and Family Studies 211 <sup>8</sup> or 213 .....	3	
Child and Family Studies 320 .....	3	
Child and Family Studies 385 .....	3	
Child and Family Studies 395 .....	3	
<sup>6</sup> Specialty Area Electives .....	15	
<sup>9</sup> Advanced Social Sciences Electives .....	6	
<b>Senior</b>		
Child and Family Studies 405 .....	3	
Child and Family Studies 470 or 480 or 490 <sup>10</sup> .....	12	
<sup>6</sup> Specialty Area Electives .....	6	
<sup>9</sup> Advanced Social Sciences Electives .....	6	
<sup>7</sup> Electives .....	4	
<b>Total</b>		<b>125 hours</b>

\* Meets University General Education requirement.

Note: Students must meet the General Education Requirement for Communicating through Writing and Communicating Orally by selecting a course with a (WC) designation and a course with an (OC) designation. These courses may be in the major or from another discipline.

<sup>1</sup>Students must select one of the following sequences: Astronomy 161-162, Biology 101-102; 111-112, Chemistry 100-110, Chemistry 120-130, Geography 131-132, or Geology 101 and 102, or 103.

<sup>2</sup>Arts and Humanities Electives: Select two courses from the list of courses meeting the University General Education Requirement for Arts and Humanities (AH).

<sup>3</sup>Any two History-prefix courses may be chosen. (A non-U.S. History sequence is needed to meet the College of Arts and Science's History requirement.)

<sup>4</sup>A sequence of a modern foreign language at the 200-level or above must be selected. Consult the University General Education Requirement for the intermediate foreign language courses listed under the Cultures and Civilizations (CC) category for courses approved to meet this requirement.

<sup>5</sup>Students must select one of the following sequences: Psychology 110-220 or Sociology 110-120 (The sociology sequence meets the Social Science General Education Requirement.).

<sup>6</sup>A minimum of 27 hours must be chosen, in consultation with a faculty advisor, from a list of courses meeting departmental requirements for specialty areas. Teacher Licensure students must take 34 hours of specialty area electives plus 3 additional hours from their Advanced Social Science elective requirement.

<sup>7</sup>At least 48 hours in 300-400 level courses are required.

<sup>8</sup>ECE Teacher Licensure students must take CFS 211.

<sup>9</sup>A total of 12 hours selected from 300-400 level CFS courses or 300-400 level Sociology, Psychology, Political Science, or Anthropology courses.

ECE Teacher Licensure students must take CFS 353 to fulfill 3 of the required 12 hours.

<sup>10</sup>Requires a cumulative GPA of 2.5 (2.7 for CFS 470, including transfer credits); completion of all CFS core courses; a minimum grade of "C" in all CFS courses; senior standing; completed application; student conduct and criminal background clearance. CFS 470 and CFS 480 must be completed in one semester. CFS 490 may be completed over several semesters.

### Specialty Areas

Specialty electives are grouped into specialty areas. Students must complete a total of three specialty areas of 9 credit hours each. (Students electing to pursue the early childhood education teacher licensure specialty area will take a total of 34 credit hours in this specialty area plus an additional 3 credit hours from their Advanced Social Science electives.) Students wishing to emphasize the advanced child development specialty area may satisfy



two of their three specialty areas by taking 18 credit hours in that area. A course may be counted in one specialty area only and may not be used to fulfill any other elective requirement. Check the *Undergraduate Catalog* for any prerequisites required for these courses.

- **Adulthood and Aging:** Child and Family Studies 312; Health 406, 465; Nursing 400.
- **Advanced Child Development:** Audiology and Speech Pathology 320; Child and Family Studies 211, 213, 485; Education of the Deaf and Hard of Hearing 425; Educational Psychology 431; Psychology 310, 320, 360, 400, 470, 475; Sociology 370; Special Education 470.
- **Advanced Research:** Anthropology 431; Child and Family Studies 481; Psychology 295, 385, 395; Sociology 331; Statistics 201, 251, 320, 330, 471, 472, 473.
- **Child and Family Diversity:** African and African-American Studies 201, 202, 429, 473, 480, 483; Anthropology 130, 312, 410, 413; Sociology 340, 343.
- **Child and Family Studies Skills: Interpersonal Communication:** Communication Studies 220, 310, 320, 350, 420, 430.
- **Child and Family Studies Skills: Public Policy:** Political Science 311, 312, 340, 446; Public Relations 270; Women's Studies 340.
- **Child and Family Studies Skills: Working with Children:** Audiology and Speech Pathology 300; Art Education 301; Child and Family Studies 350, 351; Elementary Education 445; Educational Interpreting 223, 226; Information Sciences 330.
- **Child and Family Studies Skills: Writing and Mass Media:** English 360, 455; Journalism and Electronic Media 200, 201, 414.
- **Children and Families at Risk:** Educational Psychology 432; Health 406, 430, 435; Psychology 330; Recreation and Leisure Studies 320; Sociology 340, 351, 352; Special Education 470.
- **Early Childhood Education—Licensure (all courses are required):** Child and Family Studies 105, 106, 350, 351, 353, 422; Cultural Studies in Education 400; Educational Psychology 401; Elementary Education 445; Information Sciences 330; Instructional Technology 486; Reading Education 430; Special Education 402.
- **Family and Community Services:** Communication Studies 210, 440; Counselor Education 410; Educational Psychology 460; Political Science 446; Psychology 424; Social Work 200, 250; Sociology 110.
- **Family Life Education:** Agricultural and Extension Education 211; Child and Family Studies 240, 360, 345, 440; Communication Studies 330; Counselor Education 380; Educational Psychology 210; Health 426; Philosophy 244; Psychology 409.
- **Health and Wellness:** Communication Studies 425; Health 330, 375, 400, 405, 425; Nursing 202; Philosophy 246; Psychology 430; Public Health 300, 305; Sociology 414; Urban Studies 311.
- **Women and Families:** African and African-American Studies 483; Counselor Education 410; Health 425; History 453; Religious Studies 320; Women's Studies 220, 360, 382; Women's Studies/Psychology 434.

#### REVISE EARLY CHILDHOOD EDUCATION TEACHER LICENSURE OPTION

- On page 161 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, revise the description of Early Childhood Education Teacher Licensure to

#### **Early Childhood Education Teacher Licensure**

The child and family studies major can provide the undergraduate preparation needed for a student who would like to be licensed to teach early childhood education in the State of Tennessee (pre-K through grade 4). The early childhood education licensure option is offered in conjunction with a master's degree in child and family studies (early childhood education concentration). Students who wish to pursue this option must take the early childhood education-licensure specialty area as an undergraduate. Upon attainment of senior status (i.e., 90 hours), students will complete the admission to Teacher Education process (see details in the teacher education section of this catalog) and simultaneously make application for admission to the MS with a major in child and family studies (See the *Graduate Catalog* for details.) Acceptance into the teacher licensure program is contingent upon acceptance into the department's master's program. Students interested in this option should work closely with their advisor to ensure that they understand and meet the teacher licensure program requirements and the requirements for graduate study and that they strictly follow the application process.

## REVISE CHILD AND FAMILY STUDIES MINOR

➤ On page 162 of the 2004-2005 Undergraduate Catalog, 1<sup>st</sup> column, revise the Minor in Child and Family Studies to

**Minor in Child and Family Studies****Hours Credit**

Child and Family Studies 210, 220, and one of 211, 213, or 320 ..... 9

Select 9 hours from the following:

Child and Family Studies 211, 213, 240, 312, 320, 345, 360 ..... 9

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Total 18

**DEPARTMENT OF CONSUMER SERVICES MANAGEMENT****I. Course Changes****Hotel, Restaurant, and Tourism (514)**

DROP PRIMARY CROSS-LISTED COURSE

**119 Introduction to the Service Industry (3)** (*Same as Retail and Consumer Sciences 119.*)

DROP

**321 Quantity Food Procurement, Production and Service Laboratory (1)**

REVISE PREREQUISITE

**224 Tourism Management (3)**

REVISE PREREQUISITE AND ADD COREQUISITE

**390 Professional Development (3)** Prereq: English 101-102. Prereq/Coreq: 311, 326, or Retail and Consumer Sciences 310 and progression into the program.

**445 Advanced Food Production and Service Management (3)** Prereq: 390 or consent of instructor

**485 Managerial Issues in Service Management-Hospitality (3)** Prereq: 410 and 420. Coreq: 480 or 490.

REVISE PRIMARY COURSE TO DROP CROSS-LISTING

**425 Legal Issues in Service Management (3)**

REVISE TITLE, DESCRIPTION, AND REPETITION

**440 Special Topics: Hotel, Restaurant, and Tourism (1-3)** Developments, issues and problems in hotel, restaurant, and tourism. Topics variable. May be repeated. Maximum 6 hours.

REVISE DESCRIPTION AND PREREQUISITE

**480 Professional Experience in Service Management-Hospitality (9)** Supervised professional experiences in selected hospitality organizations that build upon prior professional experience. Prereq: 410, 420. Coreq: 485.

REVISE DESCRIPTION AND PREREQUISITE

**490 Management Experience in Service Management-Hospitality (9)** Supervised managerial training with sponsoring hospitality organizations. Prereq: 410, 420. Coreq: 485.

REVISE TITLE

**494 Directed Study: Hotel, Restaurant, and Tourism (1-3)**

**Retail and Consumer Sciences (865)**

## DROP SECONDARY CROSS-LISTED COURSES

**119 Introduction to the Service Industry (3)** (See *Hotel, Restaurant, and Tourism 119.*)

**425 Legal Issues in Service Management (3)** (See *Hotel, Restaurant, and Tourism 425.*)

## DROP

**485 Managerial Issues in Retail Operations (3)**

**492 Management Experience in Retailing (9)**

## REVISE PREREQUISITE/COREQUISITE (REMOVE PREREQUISITE/COREQUISITE)

**210 Introduction to Retail Management (3)**

## REVISE PREREQUISITE

**310 Retail Buying (4)** Prereq: 102 or equivalent, 210, Mathematics 125, Accounting 200.

**346 Retail Operations Management (3)** Prereq: 210, Accounting 200.

**411 Entrepreneurship and Small Business Management (3)** Prereq: 210, 341, Marketing 300, Accounting 200.

## REVISE PREREQUISITE, ADD COREQUISITE

**376 Strategies for Growth (3)** Prereq: 341, Statistics 201, and Marketing 300. Coreq: 310.

## REVISE CREDIT HOURS, DESCRIPTION, PREREQUISITE, AND CROSS-LISTED SECONDARY COURSES

**102 Microcomputer Applications (1)** Introduction to microcomputer use and applications such as spreadsheets, databases, presentation graphics, and word processing. Emphasis on Excel and Powerpoint via in-class exercises and assignments. Satisfactory/No Credit grading. (Same as *Hotel, Restaurant, and Tourism 102.*)

**II. Program Changes**

## REVISE PROGRESSION REQUIREMENTS FOR HOTEL, RESTAURANT, AND TOURISM MAJOR

- On page 162 of the 2004-2005 Undergraduate Catalog, revise the Hotel, Restaurant, and Tourism Progression Requirements to
  - Cumulative grade point average 2.3 or greater with a minimum of 30 semester hours completed
  - Grade of C or better in all retail and consumer sciences and/or hotel, restaurant, and tourism prefix courses
  - Completion of English 101, 102, and Mathematics 125
  - Complete 300 post-secondary.....

## REVISE PROGRESSION REQUIREMENTS FOR RETAIL AND CONSUMER SCIENCES MAJOR

- On page 163 of the 2004-2005 catalog, revise the Retail and Consumer Sciences Progression Requirements to
  - Cumulative grade point average 2.3 or greater with a minimum of 30 semester hours completed
  - Grade of C or better in all retail and consumer sciences and/or hotel, restaurant, and tourism prefix courses
  - Completion of English 101, 102, and Mathematics 125
  - Complete 300 post-secondary.....

## REVISE HOTEL, RESTAURANT, AND TOURISM MAJOR - HOTEL AND TOURISM MANAGEMENT CONCENTRATION

- On page 162 of the 2004-2005 Undergraduate Catalog, revise the BS in Service Management, Hotel, Restaurant and Tourism Major (Hotel and Tourism Management Concentration) to

**Requirements for the Bachelor of Science in Service Management • Hotel, Restaurant, and Tourism Major • Hotel and Tourism Management Concentration**

Freshman	Hours Credit
English 101*, 102* .....	6
Natural Sciences Electives* .....	6-8
Mathematics 119 or 123* and 125* .....	6
Arts and Humanities Electives* .....	6
Cultures and Civilizations Elective* .....	3
<b>Sophomore</b>	
Accounting 200 .....	3
Statistics 201* .....	3
Economics 201* .....	4
Social Sciences Elective* .....	3
Hotel, Restaurant and Tourism 102 .....	1
Business Administration 201 .....	4
Hotel, Restaurant, and Tourism 210 .....	3
Hotel, Restaurant, and Tourism 211 .....	3
Hotel, Restaurant, and Tourism 224 .....	3
Hotel, Restaurant, and Tourism 311 .....	3
Elective .....	3
<b>Junior</b>	
Marketing 300 .....	3
Management 300 .....	3
Communication Studies 240* .....	3
Cultures and Civilizations Elective* .....	3
Retail and Consumer Sciences 341 .....	3
Hotel, Restaurant, and Tourism 326 .....	3
Hotel, Restaurant, and Tourism 360 .....	3
Hotel, Restaurant, and Tourism 423 .....	3
Hotel, Restaurant, and Tourism 390* .....	3
Hotel, Restaurant, and Tourism 420 .....	6
Hotel, Restaurant, and Tourism 450 .....	3
<b>Senior</b>	
Finance 301 .....	3
Hotel, Restaurant, and Tourism 410 .....	3
Hotel, Restaurant, and Tourism 425 .....	3
<sup>1</sup> Hotel, Restaurant, and Tourism Electives .....	3
Hotel, Restaurant, and Tourism 480 or 490 .....	9
Hotel, Restaurant, and Tourism 485 .....	3
<hr/> Total 120-122	

\*Meets University General Education Requirement.

Students must meet the General Education requirement for Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.

## ADD MINOR IN TOURISM AND HOSPITALITY MANAGEMENT

- On page 158, add Tourism and Hospitality Management to list of minors; On page 12, add Tourism and Hospitality Management Minor to Majors, Minors, Concentrations, and Degrees Chart; on page 163 of the 2004-2005 Undergraduate Catalog, add requirements for a new minor in Tourism and Hospitality Management.

**Tourism and Hospitality Management Minor**

	Hours Credit
Hotel, Restaurant, and Tourism 210, 211, 224 .....	9
Select two from the following:	
Hotel, Restaurant, and Tourism 311, 423, 435, 450 .....	6
<hr/> Total 15	

REVISE HOTEL, RESTAURANT, AND TOURISM MAJOR - RESTAURANT AND FOODSERVICE MANAGEMENT CONCENTRATION

- On page 163 of the 2004-2005 Undergraduate Catalog, revise the BS in Service Management, Hotel, Restaurant, and Tourism Major, Restaurant and Foodservice Management Concentration to

**Requirements for the Bachelor of Science in Service Management • Hotel, Restaurant, and Tourism Major • Restaurant and Foodservice Management Concentration**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	6
Natural Sciences Electives* .....	6-8
Mathematics 119 or 123* and 125* .....	6
Arts and Humanities Electives* .....	6
Hotel, Restaurant, and Tourism 101 .....	3
Electives .....	3
<b>Sophomore</b>	
Accounting 200 .....	3
Statistics 201* .....	3
Economics 201* .....	4
Social Sciences Elective* .....	3
Hotel, Restaurant, and Tourism 102 .....	1
Business Administration 201 .....	4
Cultures and Civilizations Elective* .....	3
Hotel, Restaurant, and Tourism 210 .....	3
Retail and Consumer Sciences 341 .....	3
Elective .....	3
<b>Junior</b>	
Marketing 300 .....	3
Management 300 .....	3
Communication Studies 240* .....	3
Finance 301 .....	3
Cultures and Civilizations Elective .....	3
Hotel, Restaurant, and Tourism 311 .....	3
Hotel, Restaurant, and Tourism 326 .....	3
Hotel, Restaurant, and Tourism 341 .....	1
Hotel, Restaurant, and Tourism 360 .....	3
Hotel, Restaurant, and Tourism 423 .....	3
Hotel, Restaurant, and Tourism 390* .....	3
Hotel, Restaurant, and Tourism 420 .....	6
<b>Senior</b>	
Hotel, Restaurant, and Tourism 410 .....	3
Hotel, Restaurant, and Tourism 425 .....	3
Hotel, Restaurant, and Tourism 445 .....	3
Hotel, Restaurant, and Tourism Elective .....	3
Hotel, Restaurant, and Tourism 480 or 490 .....	9
Hotel, Restaurant, and Tourism 485 .....	3
<b>Total 121-123</b>	

\*Meets University General Education Requirement.

Students must meet the General Education requirement for Communicating through Writing by selecting a course with a (WC) designation. This course may be in the major or from another discipline.

REVISE RETAIL AND CONSUMER SCIENCES MAJOR

- On page 163 of the 2004-2005 UG Catalog, revise the BS IN service Management, Retail and Consumer Sciences Major to

**Requirements for the Bachelor of Science in Service Management • Retail and Consumer Sciences Major**

<b>Freshman</b>	<b>Hours</b>	<b>Credit</b>
English 101*, 102*.....	6	
Natural Sciences Electives*.....	6-8	
Mathematics 119 or 123*, and 125*.....	6	
Arts and Humanities Electives*.....	6	
Cultures and Civilizations Elective*.....	3	
Elective .....	3	
<b>Sophomore</b>		
Cultures and Civilizations Elective*.....	3	
Retail and Consumer Sciences 102 .....	1	
Statistics 201*.....	3	
Economics 201*.....	4	
Social Sciences Elective*.....	3	
Accounting 200 .....	3	
Business Administration 201 .....	4	
Retail and Consumer Sciences 210, 341.....	6	
Elective .....	3	
<b>Junior</b>		
Marketing 300 .....	3	
Management 300 .....	3	
Communication Studies 240*.....	3	
Retail and Consumer Sciences 310, 311, 346, 376, 390*.....	16	
Retail and Consumer Sciences 422 .....	6	
<b>Senior</b>		
Finance 301 .....	3	
Retail and Consumer Sciences 360.....	3	
Retail and Consumer Sciences 410.....	3	
Retail and Consumer Sciences 415 or 421 ..	3	
<sup>1</sup> Retail and Consumer Sciences Electives .....	12	
Electives .....	5	
		Total 120-122

\*Meets University general education requirement.

<sup>1</sup>Retail and Consumer Sciences Electives: Select 12 hours from the following courses: Retail and Consumer Sciences 320, 411, 412, 415, 421, 480, 482, 484, 493, 495, 497; Hotel, Restaurant, and Tourism 425; Materials, Science and Engineering 220.

REVISE RETAIL AND CONSUMER SCIENCES MINOR

- On page 164 of the 2004-2005 UG catalog, revise the Minor in Retail and Consumer Sciences to

**Minor in Retail and Consumer Sciences**

	<b>Hours</b>	<b>Credit</b>
Retail and Consumer Sciences 210, 341.....	6	
Select 3 of the following:		
Retail and Consumer Sciences 310, 346, 376, 412,		
415, 421, 480.....	9	
		Total 15

**DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND POLICY STUDIES**

ELIMINATE DEPARTMENT

- On Page 164 of the 2004-2005 Undergraduate Catalog, remove the departmental listing for Educational Administration and Policy Studies.

DROP ACADEMIC DISCIPLINE AND ALL COURSES

### **Educational Administration and Policy Studies (288)**

**200 Student Leadership Development (3)**  
**455 Seminar in Student Leadership (1)**

## **DEPARTMENT OF HEALTH AND EXERCISE SCIENCE**

DEPARTMENT HAS BEEN ELIMINATED AS OF FALL 2004

MOVE ACADEMIC DISCIPLINES AND COURSES

Move Exercise Science academic discipline (347) and courses from former Department of Health and Exercise Science to Department of Exercise, Sport, and Leisure Studies

Move Health academic discipline (449) and courses to Health and Safety Programs (see below)

Move Public Health academic discipline (839) and courses to Health and Safety Programs (see below)

Move Safety academic discipline (890) and courses to Health and Safety Programs (see below)

MOVE MAJOR

Move Exercise Science major (BS in Education) from former Department of Health and Exercise Science to Department of Exercise, Sport, and Leisure Studies

MOVE MINORS

Move Gerontology minor, Adolescent Health minor, and Community Health Education minor to Health and Safety Programs (see below)

DROP COMMUNITY HEALTH EDUCATION MAJOR (BS IN HUMAN ECOLOGY)

- On page 165 of the 2004-2005 Undergraduate Catalog, delete the BS in Human Ecology, Community Health Education major and remove all references to the program from the catalog
- Remove Community Health Education from list of majors on page 158
- Remove Community Health Education major from Majors, Minors, Concentrations, and Degrees Chart on page 12

## **HEALTH AND SAFETY PROGRAMS**

MOVE ACADEMIC DISCIPLINES

Move Health academic discipline (449) and courses from former Department of Health and Exercise Science (see above) to Health and Safety Programs

Move Safety academic discipline (890) and courses from former Department of Health and Exercise Science (see above) to Health and Safety Programs

MOVE MINORS

Move Gerontology minor, Adolescent Health minor, and Community Health Education minor from former Department of Health and Exercise Science (see above) to Health and Safety Programs

REVISE CATALOG

- On page 164 of the 2004-2005 UG Catalog, revise departmental listing to Health and Safety Programs

## DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND COUNSELING

### I. Course Changes

#### Counselor Education (255)

DROP

#### 380 Interviewing and Counseling Techniques (3)

ADD

**480 Interviewing and Counseling Techniques (3)** An introduction to basic helping skills necessary to the preparation of counselors, teachers, and others involved in human service delivery.

Reference Chart for Curriculum System Entry

Current Course (255) Counselor Education	Fall 2005 (255) Counselor Education
Counselor Education 380	Counselor Education 480

#### Human Services (532)

DROP

#### 400 Prefield Seminar (2)

#### 430 Working Within the System (3)

ADD ACADEMIC DISCIPLINE AND COURSES

#### Higher Education Administration (461)

ADD

**200 Student Leadership Development (3)** Designed to enhance the knowledge and skill of emerging student leaders and includes theoretical and experiential content related to leadership role, skill, and effectiveness. Satisfactory/No Credit grading only.

**455 Seminar in Student Leadership (1)** Topics to be assigned. Designed to develop knowledge and skills in leadership roles for resident assistants, student government leaders, student activities, and other student organizations. May be repeated. Maximum 3 hours.

Reference Chart for Curriculum System Entry

Current Course (288) Educational Administration and Policy Studies	Fall 2005 (461) Higher Education Administration
Educational Administration and Policy Studies 200	Higher Education Administration 200
Educational Administration and Policy Studies 455	Higher Education Administration 455

## DEPARTMENT OF EXERCISE, SPORT, AND LEISURE STUDIES

### I. Course Changes

MOVE ACADEMIC DISCIPLINE AND COURSES

Move Exercise Science academic discipline (347) and courses from former Department of Health and Exercise Science to Department Of Exercise, Sport, and Leisure Studies

#### Exercise Science (347)

REVISE TITLE AND DESCRIPTION

**350 Physical Activity Epidemiology (3)** Epidemiological examination of the relationship of physical activity with the morbidity and mortality of chronic disease and related risk factors.

REVISE PREREQUISITE

**490 Exercise Physiology/Fitness Internship (12-15)** Prereq: 414, 422, 426, 480, progression to major, and consent of instructor.



**II. Program Changes**

**MOVE MAJOR**

Move Exercise Science major from former Department of Health and Exercise Science to Department of Exercise, Sport, and Leisure Studies

**REVISE EXERCISE SCIENCE MAJOR (FRESHMAN AND SOPHOMORE REQUIREMENTS)**

- On page 165 of 2004-2005 Undergraduate Catalog, revise the Exercise Science Major - Freshman and Sophomore Year Curriculum as follows:

<b>Freshman</b>	<b>Hours Credit</b>
Exercise Science 100 .....	1
English 101*, 102* .....	6
Mathematics 123* and 125* or 141*-142* or 151*-152* .....	6-8
Chemistry 120*, 130* .....	8
Psychology 110* .....	3
Agriculture and Natural Resources 290 .....	3
Arts and Humanities Elective* .....	3
<sup>1</sup> Proficiency in Two Activities	
<b>Sophomore</b>	
Physics 221*, 222* .....	8
Biochemistry and Cellular and Molecular Biology 230 .....	5
Nutrition 100* or 300 .....	3
Health 310 .....	3
Communication Studies 210* or 240* .....	3
English 295* or 360* .....	3
Cultures and Civilizations Elective* .....	3
Arts and Humanities Elective* .....	3
<sup>1</sup> Proficiency in Two Activities	

REVISE RECREATION AND LEISURE STUDIES MAJOR · THERAPEUTIC RECREATION CONCENTRATION

- On pages 167 and 168 of the 2004 UTK Undergrad Catalog, revise the Recreation and Leisure Studies Major, Therapeutic Recreation Concentration to

**Requirements for the Bachelor of Science in Education · Recreation and Leisure Studies Major · Therapeutic Recreation Concentration (Accredited in General Recreation by NRPA/AALR)**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	6
Quantitative Reasoning* .....	6
Chemistry 100* and 110* or 120* and 130* .....	8
Child and Family Studies 210* .....	3
Recreation and Leisure Studies 201 .....	4
Retail and Consumer Sciences 102 .....	1
Psychology 110* .....	3
<b>Sophomore</b>	
Child and Family Studies 220 .....	3
Biochemistry and Cellular and Molecular Biology 230 .....	5
Communication Studies 210* or 240* .....	3
Health 310 .....	3
Recreation and Leisure Studies 290 .....	2
Recreation and Leisure Studies 320, 325 .....	6
Philosophy 246 (writing-emphasis course)* .....	3
Cultures and Civilizations* .....	6
<b>Junior</b>	
Exercise Science 332 or Ecology and Evolutionary Biology 240 .....	3-4
Psychology 330 .....	3
<sup>1</sup> Professional Support Course Electives .....	3
Arts and Humanities* .....	6
Recreation and Leisure Studies 310, 425 .....	6
Recreation and Leisure Studies 390 .....	2
Sport Studies 290 .....	3
Electives .....	3
<sup>2</sup> Recreation and Leisure Studies 450, Psychology 409, Health 406,435, Sociology 414, Special Education 470 .....	3
<b>Senior</b>	
Exercise Science 411 .....	3
Recreation and Leisure Studies 410, 420, 430 .....	9
<sup>3</sup> Recreation and Leisure Studies 490 .....	12
Electives .....	4
<hr/> <b>Total 122-123</b>	

\* Meets General Education Requirements

<sup>1</sup>Courses must be in addition to those specified for the major and must be elected from: Child and Family Studies, Psychology, Sociology, Health, Safety, Recreation and Leisure Studies, Special Education, Human Services, Exercise Science, Sport Studies.

<sup>2</sup>Must select one course from this group.

<sup>3</sup>Must meet guidelines for national NCTRC certification.

NOTE:

A. 2.5 GPA is required for college affiliation and progress in major.

B. Recreation 290 and 390 are for recreation majors only and are required prior to enrolling in senior internship.

C. 2.5 GPA is required for enrollment in RLS 310 and 490.

D. A minimum of 48 upper-division hours is required for graduation.

REVISE SPORT MANAGEMENT MAJOR

➤ On Page 169 of the 2004-2005 Undergraduate Catalog, revise the Sport Management Major to

**Requirements for the Bachelor of Science Education • Sport Management Major**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	6
Cultures and Civilizations Electives* .....	6
Social Science Elective* .....	3
Sport Management 100 .....	1
Arts and Humanities Elective* .....	3
Business Administration 101 .....	1
Mathematics 125* or 141* .....	3-4
General Electives .....	7
<b>Sophomore</b>	
<sup>1</sup> Accounting 200 .....	3
<sup>1</sup> Economics 201* .....	4
<sup>1</sup> Business Administration 201 .....	4
Natural Sciences Electives* .....	7-8
Communication Studies 210* or 240* .....	3
Sport Management 250, 290 <sup>2</sup> .....	6
Statistics 201* .....	3
<b>Junior</b>	
<sup>1</sup> Management 300 .....	3
<sup>1</sup> Finance 301 .....	3
Marketing 300 .....	3
Sport Management 350 <sup>2</sup> , 390 <sup>2</sup> .....	6
Arts and Humanities Elective* .....	3
Sport Studies 335 .....	3
Communicating through Writing Elective* .....	3
General Electives .....	6
<b>Senior</b>	
Sport Management 490 .....	12
Choose 5: Sport Management 330 <sup>2</sup> , 360, 370 <sup>2</sup> , 380 <sup>2</sup> , 440 <sup>2</sup> , 450 <sup>2</sup> , 460 <sup>2</sup> ; Recreation and Leisure Studies 415 <sup>2</sup> , 440 <sup>2</sup> ; Sport Studies 336) .....	15
General Electives .....	3
<hr/> Total 120-122 <hr/>	

\*Meets University General Education Requirement.  
<sup>1</sup> Business minor requirement.  
<sup>2</sup> Requires progression into the sport management major.

**DEPARTMENT OF NUTRITION**

**I. Course Changes**

**Nutrition (726)**

DROP SECONDARY CROSS-LISTED COURSE

**102 Microcomputer Applications (3)** (See *Retail and Consumer Sciences 102.*)

REVISE CREDIT RESTRICTION

**100 Introductory Nutrition (3)** A student who has received credit for Nutrition 300 may not receive credit for this course.

REVISE GRADING

**201 Careers in Nutrition (1)** (Formerly Letter grade only.)

## REVISE CREDIT RESTRICTION AND PREREQUISITE/COREQUISITE

**300 Fundamentals of Nutrition (3)** Prereq: Chemistry 110 or 130. Prereq/Coreq: Biochemistry and Cellular and Molecular Biology 230. A student who has received credit for Nutrition 100 may not receive credit for this course.

## REVISE PREREQUISITE

**302 Life Span Nutrition (3)** Prereq: 100 or 300; Biochemistry and Cellular and Molecular Biology 230.

**313 Vitamins and Minerals (3)** Prereq: 310, Chemistry 350.

**314 Energy Metabolism and Metabolic Integration (3)** Prereq: 310; Chemistry 350.

**415 Clinical Nutrition I (3)** Prereq: 313, 314.

**416 Clinical Nutrition II (3)** Prereq: 415.

**420 Food and Nutritional Analysis (4)** Prereq: 100 or 300, 310.

**493 Directed Study: Nutrition (1-3)**

## II. Program Changes

## REVISE PROGRESSION REQUIREMENTS FOR NUTRITION MAJOR

➤ On page 167 of the 2004-2005 Undergraduate Catalog, revise the Nutrition Progression Requirements to

**Progression Requirements**

Students should apply for progression after completing Nutrition 100 or 300, 310, and Chemistry 350, and prior to enrolling in Nutrition 313 and 314. Applications are available in the departmental office or from the departmental Web site.

For progression into the major, students must meet the following criteria

- Cumulative grade point average 2.4 or greater
- Grade of C or better in each required nutrition prefix course

For graduation, students must earn a grade of C or better in all required nutrition courses.

REVISE NUTRITION MAJOR

➤ On page 167 of the 2004-2005 Undergraduate Catalog, revise the BS in Human Ecology, Nutrition major to

**Requirements for the Bachelor of Science in Human Ecology - Nutrition Major**

<b>Freshman</b>	<b>Hours Credit</b>
Chemistry 120, 130* .....	8
English 101*, 102* .....	6
Cultures and Civilizations Elective* .....	3
Mathematics 119 <sup>1</sup> and 125* .....	6
Psychology 110* .....	3
Nutrition 100* .....	3
Social Sciences Elective* .....	3
<b>Sophomore</b>	
Hotel, Restaurant and Tourism 210 .....	3
Nutrition 201, 302 .....	4
Chemistry 350 .....	3
Hotel, Restaurant and Tourism 101 .....	3
Statistics 201* .....	3
Biochemistry and Cellular and Molecular Biology 230 .....	5
Electives .....	7
<b>Junior</b>	
Accounting 200 .....	3
Electives .....	6
Cultures and Civilizations Elective* .....	3
Arts and Humanities Elective* .....	3
Nutrition 310, 313, 314 .....	10
Communication Studies 240* .....	3
Microbiology 210* .....	3
<b>Senior</b>	
Electives .....	6
Hotel, Restaurant and Tourism 326, 341 .....	3
Arts and Humanities Elective* .....	3
Nutrition 303, 410, 412*, 415, 416, 420 .....	17
<hr/> Total 120	

\*Meets University General Education Requirement.  
 Students must meet the University General Education Requirement for Communicating through Writing by selecting a course with a (WC) designation.  
<sup>1</sup>If a student successfully completes the proficiency exam for Math 119, those credit hours must be replaced with additional elective credit hours.

**DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION**

**I. Course Changes**

**Special Education (932)**

REVISE TITLE, DESCRIPTION, COREQUISITE

**420 Field Experience in Special Education Programs (3)** Practicum in teaching special education programs: planning, developing, implementing and evaluating instruction. Prereq: 402, admission to Teacher Education Program. Coreq: 419 and/or 471. Satisfactory/No Credit grading only.

## II. Program Changes

DROP MODIFIED AND COMPREHENSIVE CONCENTRATION (SPECIAL EDUCATION MAJOR)

ADD MODIFIED AND EARLY CHILDHOOD SPECIAL EDUCATION CONCENTRATION (SPECIAL EDUCATION MAJOR)

- On page 171 of the 2004-2005 Undergraduate Catalog, delete the Special Education Major, Modified and Comprehensive Concentration showcase and replace it with

### Requirements for the Bachelor of Science in Education - Special Education Major - Modified and Early Childhood Special Education Concentration

Freshman	Hours Credit
English 101*, 102* .....	6
Anthropology 130* .....	3
Quantitative Reasoning Elective* .....	6
Psychology Electives .....	6
<sup>1</sup> Sociology Elective .....	3
<sup>1</sup> Political Science Elective .....	3
<sup>1</sup> Economics Elective .....	3
Sophomore	
Philosophy 246* .....	3
Philosophy or Religious Studies Elective .....	3
Educational Psychology 210 .....	3
Non-US History .....	6
Geography Elective .....	3
<sup>2</sup> Physical Science Electives .....	6
<sup>2</sup> Biological Science Electives .....	8
Junior	
Information Sciences 330 .....	3
Recreation and Leisure Studies 425 .....	3
Health 306 .....	3
<sup>3</sup> Foreign Language* .....	6
Arts and Humanities* .....	3
<sup>4</sup> Electives .....	3
Educational Psychology 401 .....	2
Special Education 402 .....	2
Cultural Studies in Education 400 .....	2
Audiology and Speech Pathology 320 .....	3
Senior	
Instructional Technology 486 .....	3
Special Education 419 .....	6
Special Education 471 .....	6
Special Education 420 .....	3
Elementary Education 422 .....	6
Reading Education 430 .....	2
Special Education 456 or 410 .....	3
<hr/> Undergraduate Total 121 <hr/>	

Course taken during the post-baccalaureate professional year:

	Hours Credit
Education 575 .....	12
Elementary Education 505 .....	6
Education 574 .....	2
Education 591 .....	4
<hr/> Graduate Total 24 <hr/>	

\*Meets University General Education Requirement.

<sup>1</sup>At least two of these three (Sociology, Political Science, Economics) should be from those Social Sciences courses that are approved for partial fulfillment of the University General Education requirement.

<sup>2</sup>Must include a total of 2 lab sciences from the Natural Sciences list.

<sup>3</sup>Intermediate-level competence.

<sup>4</sup>Students must meet the University General Education Requirement for Communicating through Writing and Communicating Orally by selecting a course with a (WC) and a course with an (OC) designation, respectively.

REVISE SPECIAL EDUCATION MAJOR · EDUCATIONAL INTERPRETING CONCENTRATION

In the showcase (Junior Year), change

Philosophy 240\* ..... 3

To

Philosophy 340\* ..... 3

REVISE SPECIAL EDUCATION MAJOR · EDUCATION OF THE DEAF AND HARD OF HEARING CONCENTRATION

In the showcase (Junior Year), change

Philosophy/Religious Studies 345\* ..... 3

To

Philosophy/Religious Studies 246\* ..... 3

## COLLEGE OF ENGINEERING

### ALL CHANGES EFFECTIVE: FALL 2005

#### REVISE ADMISSION REQUIREMENT

- On page 174, column 1 of the 2004-2005 Undergraduate Catalog, revise the admission requirement statement to increase the SPI score and convert from high school GPA to core GPA.

For admission to the College of Engineering, entering freshman students must meet the requirements for admission to The University of Tennessee, and they must also have a Success Prediction Indicator (SPI) of at least 57.0. The SPI is calculated by adding an individual's ACT mathematics score to 10 times their high school core GPA (based on a 4.0 scale). Thus, a student with a core GPA of 3.5 and a mathematics ACT score of 28 would have an SPI of  $63 = (28 + 10 \times 3.5)$ . SAT scores are converted to an equivalent ACT score to perform this calculation.

#### CHANGE GENERAL EDUCATION STATEMENT

- On page 177 of the 2004-2005 Undergraduate Catalog, delete the entire Approved General Education Electives section (through the Professional and Ethical Responsibility Cluster listing.) Replace it with:

##### **GENERAL EDUCATION REQUIREMENT**

The University of Tennessee has established a university general education requirement that includes emphases upon building basic skills and developing broadened perspectives. These requirements apply to all undergraduate students and are listed at the front of this catalog. Engineering students should consult with their advisor and carefully select General Education Electives to insure that (1) courses meet the general education needs of their program and (2) courses meet the university general education requirements.

#### REVISE AMERICAN HISTORY REQUIREMENT STATEMENT

- On page 178 of the 2004-2005 Undergraduate Catalog, revise the American History Requirement statement by changing the last sentence of the statement.

From

These hours may be counted as part of the required block of humanities and social science electives.

To

See additional information about the American History Requirement in the Academic Policies and Procedures section of this catalog.

## DEPARTMENT OF CHEMICAL ENGINEERING

### I. Course Changes

#### **Chemical Engineering (226)**

ADD

**215 Computer Applications in Chemical Engineering (3)** Introduction to computer solutions to chemical engineering problems. Includes: modern programming tools, flow sheet simulators, statistics, spreadsheet, graphics. Coreq: 200.

**411 Undergraduate Research Experience (3)** Research problems in current topics in chemical engineering. Students work in teams to design, perform, and document current research projects. Prereq: 310.

**481 Green Engineering (3)** Principles and practical aspects of the design, commercialization, and use of processes and products for determining their feasibility and economic potential while minimizing the generation of pollution at the source and risk to human health and environment. Prereq: Consent of instructor.

**486 Chemical Process Safety (3)** Introduction to chemical process safety, augmented with case studies. Topics include (1) Safety Strategies and Accident Prevention, (2) Toxic Substances in the Workplace and Industrial Hygiene, (3) Accidental Release of Hazardous Materials and Dispersion Modeling, (4) Fires and Explosions; Design for Prevention, (5) Design of Emergency Pressure Relief Systems, and (6) Identifying Potential Hazards. Prereq: 200, 230, and 240 or consent of instructor.



DROP

**415 Computer Applications in Chemical Engineering (3)**  
**485 Hydrocarbon Processing (3)**

REVISE DESCRIPTION, PREREQUISITES/COREQUISITES, CREDIT HOURS

**200 Chemical Engineering Fundamentals (3)** Material and energy balances. Prereq: Engineering Fundamentals 152, 105, Chemistry 130. Coreq: 215, 230, computing elective, Mathematics 142 or consent of instructor.

REVISE DESCRIPTION and PREREQUISITES/COREQUISITES

**230 Introduction to Chemical Engineering Thermodynamics (3)** Introduction to the laws of thermodynamics, state functions, and their conceptual basis. Ideal systems, the gas law, Raoult's law, and deviations from ideal behavior (fugacity and activity). Introduction to chemical and phase equilibria. Prereq: Engineering Fundamentals 152, 105, Chemistry 130. Coreq: 200, 215, Mathematics 142.

REVISE TITLE, DESCRIPTION, PREREQUISITES OF PRIMARY CROSS-LISTED COURSE

**301 Application of Statistical and Numerical Techniques in Engineering (3)** Statistical methods for probabilities, expectations, sampling, and estimation; Numerical methods for regression, integration, solution of systems of linear/nonlinear algebraic and differential equations. Prereq: 215, Mathematics 142, or permission of instructor. (*Same as Materials Science and Engineering 301.*)

REVISE TITLE, DESCRIPTION, PREREQUISITES

**488 Honors: Design Internship in Green Engineering (3)** Students work in small teams on applying green engineering principles to authentic industrial design problems. Directed by faculty and professionals from host industry. Prereq: 480.

REVISE CREDIT HOURS, DESCRIPTION, LAB COMPONENT

**360 Process Dynamics and Control (3)** Introduction to process modeling and industrial control system design. Mathematical tools for characterizing dynamic behavior of processes; theory and practice of operating and controlling such systems.

REVISE DESCRIPTION; PREREQUISITE/COREQUISITE

**340 Mass Transfer and Separation Processes (3)** Stagewise operation; application of analytical, graphical and computer methods to design of stagewise separatory operations. Differential operations-application of analytical and computer methods to the design of diffusive processes. Applications include gas absorption, stripping, binary distillation, and extraction. Prereq: 200. Coreq: 230.

REVISE DESCRIPTION

**450 Chemical Reactor Fundamentals (3)** Homogeneous and heterogeneous reaction kinetics; idealized homogeneous reactor models, both for closed and flow systems; analysis of batch reactor data; multiple reactions; non-isothermal reactions. Prereq: 240, 340, 301.

**490 Process Design and Economic Analysis (3)** Students work in small teams on applying sound engineering principals to authentic industrial design problems. Directed by faculty and professionals from host industry. Prereq. 480.

REVISE PREREQUISITE

**480 Equipment Design and Economic Methods (4)** Prereq: 360, Chemistry 350. Coreq: 445, 450.

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**484 Introduction to Maintainability Engineering (3)** (*See Nuclear Engineering 484.*)

## II. Program Changes

CHEMICAL ENGINEERING MAJOR - REVISE PROGRESSION TO UPPER-DIVISION

➤ Change Catalog Text (page 179 of 2004 Undergraduate Catalog)

### Progression to Upper-Division

Progression of chemical engineering students to departmental courses numbered 310 or above is competitive and is based on capacity. Factors considered include overall grade point average, performance in selected lower-division courses and evidence of satisfactory and orderly progress through the prescribed curriculum.

## REVISE THE CHEMICAL ENGINEERING MAJOR

- On page 180 of the 2004-2005 Undergraduate Catalog, revise the requirements for the Chemical Engineering Major to

**CHEMICAL ENGINEERING MAJOR**  
**Requirements for Bachelor of Science in Chemical Engineering**

	Hours Credit
<b>Freshman</b>	
English 101*, 102* .....	6
Chemistry 120*, 130* .....	8
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158.....	9
<b>Sophomore</b>	
Chemical Engineering 200, 215, 230, 240, 250.....	16
Mathematics 200, 231, 241.....	8
Chemistry Option I .....	3
Arts and Humanities Electives*.....	6
<b>Junior</b>	
Chemical Engineering 301, 310, 340, 360, 380.....	13
Chemistry 310-319.....	4
Chemistry 350.....	3
Chemistry Option II .....	3
<sup>1</sup> Technical Elective (OC)* .....	3
Social Sciences Electives*.....	6
<b>Senior</b>	
Chemical Engineering 401, 410 or 411, 445, 450, 480, 488 or 490 .....	17
Physics 231* .....	3
<sup>1</sup> Technical Electives (one course must be WC)* .....	6
Cultures and Civilizations Electives* .....	6
<b>Total</b>	<b>128</b>

\*Meets University General Education Requirement.

All electives must be pre-approved by the advisor and the department head.

<sup>1</sup>Students must meet the University General Education Requirement for Communicating through Writing and Communicating Orally by selecting a course with a WC designation and a course with an OC designation.

## DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

### I. Course Changes

#### Civil Engineering (254)

ADD

**309 Applied Professional Responsibility (1)** Introduction to the American Society of Civil Engineers (ASCE), the primary civil engineering professional society, and interaction with the local branch and state section of the ASCE. This class provides a framework for the participation in professional practice activities, service to the community, and educational outreach. These activities may be coordinated through the Student Chapter of ASCE, or through the department, the college or other approved groups. May include participation in the annual ASCE Regional Student Chapter Conference. May not be used as credit toward graduation. Prereq: Sophomore standing in engineering. May be repeated. Maximum 3 hours.

DROP

#### 421 Portland Cement Concrete Mix Design and Analysis (3)

REVISE TITLE AND DESCRIPTION

**210 Geomatics (4)** Introduction to the measurement, representation, analysis, management, retrieval and display of spatial data concerning both the earth's physical features and the built environment. Covers land and construction surveying, controls, error analysis, use of CADD and an introduction to global positioning systems (GPS) and geographical information systems (GIS) used in civil engineering. 3 hours, 1 lab. Prereq: Sophomore standing.

REVISE PREREQUISITE

**261 Structural Analysis I (3)** Prereq: Engineering Fundamentals 202.

**390 Hydraulics (4)** Prereq: 205 or Biosystems Engineering 221; Engineering Fundamentals 152 or 158.

**451 Highway Engineering (3)** Prereq: 352.

**452 Traffic Engineering (3)** Prereq: 352.

**453 Airport/Railroad Planning and Design (3)** Prereq: 352.

**II. Program Changes**

REVISE CATALOG TEXT

- On Page 180 of the 2004 – 2005 Undergraduate Catalog revise the Educational Objectives section text to

**Educational Objectives**

Consistent with the mission of the Department of Civil and Environmental Engineering at The University of Tennessee, graduates of the civil engineering program will have: technical competency to pursue professional practice or graduate education; and professional competency to function in a team environment, effectively communicate, and engage in life-long learning.

The curriculum in civil engineering provides training in fundamental engineering sciences and in basic subjects in related fields. Technical electives are available in construction, environmental engineering, geotechnical, material, structures, transportation, or water resources.

**Graduation Requirements**

Students are required to maintain a cumulative grade point of at least 2.00 in all civil engineering and environmental engineering courses taken at the University of Tennessee, Knoxville, and used to satisfy the graduation requirements. No more than six hours of civil and environmental engineering courses in which a D is the highest grade earned may be counted toward graduation.

REVISE THE CIVIL ENGINEERING MAJOR

- On page 181 of the 2004-2005 Undergraduate Catalog, revise the requirements for the Civil Engineering Major to

**CIVIL ENGINEERING MAJOR**

**Requirements for the Bachelor of Science in Civil Engineering**

	Hours	Credit
<b>Freshman</b>		
Chemistry 120*, 130* .....	8	
English 101*, 102* .....	6	
Engineering Fundamentals 105, 151 or 157, 152 or 158 .....	9	
Mathematics 141*, 142* .....	8	
<b>Sophomore</b>		
Arts and Humanities Elective* .....	3	
Civil Engineering 205*, 210, 261, 351 .....	12	
Engineering Fundamentals 202 .....	2	
Mathematics 231, 241, 251 .....	10	
Physics 231* .....	3	
Statistics 251 .....	3	
<b>Junior</b>		
Arts and Humanities Elective* .....	3	
Civil Engineering 305, 321, 330, 352, 361, 380, 390, 416 .....	24	
Cultures and Civilizations Electives* .....	6	
<b>Senior</b>		
Civil Engineering 400, 401, 435, 440, 442, 471, 480 .....	19	
Civil Engineering Elective .....	3	
Civil Engineering/Technical Elective .....	3	
Social Sciences Electives* .....	6	
		Total 128

\*Meets University General Education Requirement.  
All electives must be pre-approved by the advisor and the department head.

**DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING****I. Course Changes****Electrical and Computer Engineering (319)**

ADD

**313 Probability and Random Variables (3)** Axioms of probability, set theory, independence, conditional probability, Bayes' Theorem, permutations and combinations, histograms, probability density, moments, functions of a random variable, joint probability density, central limit theorem, samples and populations, sample mean and variance, curve fitting, correlation of time signals. Prereq: Mathematics 231.

REVISE COURSE DESCRIPTION and prerequisites

**400 Senior Design (5)** A major design project that focuses the student's attention on professional practice, accumulated background of curricular components, and recent developments in the field. This major design emphasis is directed to topics within the field of electrical engineering. Includes Level 3 design projects which require laboratory work. Prereq: 316, 335, 342, 355. **(WC) (OC)**

REVISE CREDIT HOURS

**415 Automatic Control Systems (3)**

REVISE COURSE DESCRIPTION AND CREDIT HOURS

**416 Computer Control Systems (3)** Computer controlled systems using state variables and z-transform model representations with sampling theory and its effect of digital control design. Design of digital controllers in both the state space and frequency domains. Includes Level 1 design projects. Prereq: 316.

**422 Power System Operations and Planning (3)** Dynamic phenomena in power systems. Transient stability assessment and enhancement; direct and indirect methods for stability determination in nonlinear systems. Operations planning, unit commitment, economic dispatch, frequency regulation and automatic generation control. Volt-var control, load management, cogeneration and other topics of contemporary concern. Includes Level 1 design projects. Prereq: 421.

**432 Electronic Amplifiers (3)** Feedback amplifier principles; wideband linear amplifier design; low-noise preamplifier design; audio power amplifier design. Introduction to radio-frequency amplifier design; oscillator principles. Includes laboratory experiments and design projects. Includes Level 2 design projects which require laboratory work. Prereq: 431.

**442 Communication System Design (3)** Application of communication theory to system design. Hardware and software design and simulation. Modern communication topics. Includes Level 1 design projects. Prereq: 441.

**453 Introduction to Computer Networks (3)** Principles of computer networking and software design of network protocol with an emphasis on the internet and TCP/IP protocol suite. Includes Level 1 design projects. Prereq: 206.

**455 Embedded Systems (3)** Design and development of embedded systems for data acquisition and special-purpose computing systems, such as peripheral interfacing, serial/parallel communications and bus systems. Assembly language programming, software architecture, and machine architecture of microcontrollers. Includes Level 1 design projects, which require laboratory work. Prereq: 355.

**472 Introduction to Digital Image Processing (3)** Basic methods for digitizing, storing, processing, and displaying images. Computational procedures for image enhancement, restoration, coding, and segmentation. Includes Level 1 design projects. Prereq: 316. Non-majors require consent of instructor.

**482 Power Electronic Circuits (3)** Voltage-fed inverters, PWM principles, control of inverters, dc-dc converters, dc machine drives, resonance converters, step motor drives, brushless dc machine principles. Includes Level 1 design projects. Prereq: 481.

REVISE PREREQUISITES

**481 Power Electronics (3)** Prereq: 316, 325, 336.

**II. Program Changes**

REVISE REQUIREMENTS FOR ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING MAJORS TO REQUIRE:

- At least a "C" in every electrical and computer engineering course
- At least a "C" in every required mathematics or computer science course

## ADD PROGRESSION REQUIREMENT

- Revise catalog text (page 182) to reflect the above changes

**General**

The courses of study for the Bachelor of Science degree in Electrical Engineering and Bachelor of Science degree in Computer Engineering are structured to provide a foundation in both the basic sciences and the specialized areas of their respective discipline. The programs also have sufficient general education electives to enhance the cultural growth of the student and develop professionals with a strong social awareness. The faculty seeks to keep classes small enough to allow effective interaction with students.

The selection of general education elective courses is left to each student but must be made in accordance with established College of Engineering policy.

Generally, all sophomore and junior level courses taught in the department are taught at least twice per year. Senior-level courses are normally offered in either the fall or spring semester. Courses for which a senior course is a prerequisite will be normally offered in the spring semester with the prerequisite senior course being offered in the fall semester. In all courses which have prerequisites indicated, the prerequisite must be completed prior to enrollment in the course. This scheduling arrangement allows for flexibility, since the student may elect the normal four-year schedule, an accelerated schedule, or choose to participate in the cooperative engineering program.

The Electrical and Computer Engineering Department maintains a number of laboratory facilities to support the undergraduate teaching program. The laboratories are devoted specifically to circuits and systems, communications, computer networks, digital systems, electronics, image processing, machinery, machines, and power electronics and drives. Microcomputer and personal computer facilities are provided within the department.

The Electrical and Computer Engineering Department requires at least a "C" in every Electrical and Computer Engineering course used for either of our undergraduate degrees, and in every required mathematics or computer science course.

Progression of electrical and computer engineering undergraduate majors to the upper-division programs of the department is competitive and is based on the space available in the department. Factors considered in the decision include overall grade point average, grades earned in courses required in the lower-division curricula of the department and College of Engineering, and seriousness of purpose and interest in departmental programs as exemplified by regular and orderly progress through the prescribed curriculum without abuse of withdrawal and course repeat privileges.

Students who take Electrical and Computer Engineering 300 in the ECE department will be evaluated during the semester they are registered for it. Transfer students for whom ECE 300 transfer credit is given may take nine (9) semester hours in departmental courses before progression evaluation. All students, whether or not they transfer in, who are not accepted into the upper-division program of the department will either be put in a temporary probationary status, or a non-progressed status in which they will not be permitted to register for any upper-division courses within the department.

REVISE ELECTRICAL ENGINEERING MAJOR

- On page 183 of the 2004-2005 Undergraduate Catalog, revise the Electrical Engineering showcase to

**Requirements for the Bachelor of Science in Electrical Engineering**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*, 102* .....	6
Chemistry 120* .....	4
Math 141*, 142* .....	8
Engineering Fundamentals 151 or 157 <sup>1</sup> , 152 or 158 <sup>1</sup> , 105 .....	9
Electrical and Computer Engineering 206 .....	4
<b>Sophomore</b>	
Mathematics 200, 231, 241 .....	8
Physics 231*, 232* .....	7
Electrical and Computer Engineering 255, 313 .....	7
Electrical and Computer Engineering 300 .....	5
<sup>2</sup> Philosophy 241*, 243*, or 244* .....	3
<b>Junior</b>	
Electrical and Computer Engineering 315, 325, 335, 341 .....	14
Electrical and Computer Engineering 316, 336, 342, 355, 395 .....	13
<sup>2</sup> Social Sciences Electives* .....	6
<b>Senior</b>	
Electrical and Computer Engineering 400* .....	5
<sup>3</sup> Electrical Engineering Senior Electives .....	12
<sup>4</sup> Technical Electives .....	6
<sup>2</sup> Arts and Humanities Elective* .....	3
<sup>2</sup> Cultures and Civilizations Electives* .....	6
<sup>1</sup> Engineering Fundamentals 402 .....	1
<hr/> <b>Total 127</b> <hr/>	

\* Meets University General Education Requirement.

<sup>1</sup>Engineering Fundamentals 157 and 158 are Honors versions of Engineering Fundamentals and students in the Honors program are not required to take Engineering Fundamentals 402.

<sup>2</sup>Can be taken at any time.

<sup>3</sup>Acceptable Senior Electrical and Computer Engineering Sequences: 415-416, 421-422, 431-432, 441-442, 443-446, 451-453, 451-455, 471-472, 481-482.

<sup>4</sup>Engineering Technical Electives: Chemistry 130; Materials Science and Engineering 201, 410; Mechanical Engineering 231, 321, 331, 344; Nuclear Engineering 342; Industrial Engineering 405.

## REVISE COMPUTER ENGINEERING MAJOR

- On page 182 of the 2004-2005 Undergraduate Catalog, revise the Computer Engineering showcase to

**Requirements for the Bachelor of Science in Computer Engineering**

	Hours Credit
<b>Freshman</b>	
English 101*, 102* .....	6
Chemistry 120* .....	4
Math 141*, 142* .....	8
Engineering Fundamentals 151 or 157 <sup>1</sup> , 152 or 158 <sup>1</sup> , 105 .....	9
Electrical and Computer Engineering 206 .....	4
<b>Sophomore</b>	
Mathematics 231, 241, 251 .....	10
Physics 231*, 232* .....	7
Electrical and Computer Engineering 255, 313 .....	7
Electrical and Computer Engineering 300 .....	5
Computer Science 140 .....	4
<b>Junior</b>	
Electrical and Computer Engineering 315, 335 .....	7
Computer Science 302, 360 .....	6
Mathematics 300 .....	3
Electrical and Computer Engineering 316, 342, 355, 395 .....	10
<sup>2</sup> Philosophy 241*, 243*, or 244* .....	3
<sup>2</sup> Cultures and Civilizations Electives* .....	6
<b>Senior</b>	
Electrical and Computer Engineering 451-453 or 451-455 .....	6
Electrical and Computer Engineering 400* .....	5
<sup>3</sup> Computer Engineering Senior Electives .....	6
<sup>2</sup> Arts and Humanities Elective* .....	3
<sup>2</sup> Social Sciences Electives* .....	6
<sup>1</sup> Engineering Fundamentals 402 .....	1
<b>Total 126</b>	

\* Meets University General Education Requirements.

<sup>1</sup>Engineering Fundamentals 157 and 158 are Honors versions of Engineering Fundamentals and students in the Honors program are not required to take Engineering Fundamentals 402.

<sup>2</sup>Can be taken at any time.

<sup>3</sup>The Computer Engineering Senior Electives must be in Electrical and Computer Engineering courses. At most, one Computer Engineering Senior Elective can be from any 300-level Electrical and Computer Engineering courses. Approved Senior Electives are: Electrical and Computer Engineering 325, 336, 341, 415, 416, 421, 422, 423, 431, 432, 441, 442, 443, 446, 453, 471, 472, 481 and 482.

**ENGINEERING FUNDAMENTALS DIVISION****I. Course Changes****Engineering Fundamentals (323)**

ADD

**105 Computer Methods in Engineering Problem Solving (1)** Introduction to computer applications used in engineering problem solving and communications. Introduction to programming concepts including conditional statements and looping; the development and implementation of logic flow diagrams. Coreq: 151 or 157.

**151 Physics for Engineers I (4)** Calculus based study of basic physics concepts including vectors, kinematics, Newton's laws, forces, work-energy, and impulse-momentum. Introduction to team work. Introduction to the engineering disciplines, examination of engineering principles and design issues; oral and written presentation skills. Coreq: 105, Mathematics 141. A, B, C, No Credit grading.

**152 Physics for Engineers II (4)** Calculus based study of basic physics concepts including rotational dynamics, statics, oscillations, waves, fluids, heat and temperature, and first and second law of thermodynamics. Introduction to team work. Introduction to the engineering disciplines, examination of engineering principles and design issues; oral and written presentation skills. Prereq: 151. Coreq: Mathematics 142.

**153 Introduction to Engineering (2)** Introduction to engineering for entering students with previous credit in mechanics physics. Introduction to the engineering profession and disciplines. Introduction to engineering problem solving and design through individual and team projects. Oral and written reports. Prereq: Advanced Placement or transfer credit for calculus based Mechanics Physics.

**157 Honors: Physics for Engineers I (4)** Honors version of 151 for well-prepared students. Open to University Honors Students and to others with consent of the instructor. Coreq: 105, Mathematics 141. A, B, C, No Credit grading.

**158 Honors: Physics for Engineers II (4)** Honors version of 152. Prereq: 157. Coreq: Mathematics 142.

**202 Engineering Mechanics (2)** Review of vector algebra. Statics of two-dimensional trusses and frames, including methods of joints and sections. Geometric properties of cross sections, including first and second moments and location of centroid. Inertial properties of rigid bodies, including moment of inertia and location of mass center. Prereq: 151. Coreq: 152 or consent of instructor.

**230 Computer Solution of Engineering Problems (2)** Primary focus is on development of computer programs in a modern programming language to solve engineering problems. Prereq: 152.

**402 Fundamentals of Engineering (1)** Review of topics covered on the general morning session of the Fundamentals of Engineering exam. Prereq: Senior standing in engineering. Mechanical, Aerospace, Biomedical Engineering majors must enroll for letter grade.

DROP

**101 Engineering Approaches to Physical Phenomena (6)**

**102 Fundamentals of Engineering Mechanics (6)**

**103 Review of Engineering Fundamentals (3)**

**108 Honors: Fundamentals of Engineering Mechanics (6)**

**201 Engineering Design Workshop (2)**

## DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

### I. Course Changes

#### Industrial Engineering (556)

ADD

**250 Sophomore Seminar (1)** Exposure to the engineering design process through an apprenticeship with senior design teams in Industrial Engineering 422. Apprentices will maintain a journal describing their activities in observing and assisting the senior design teams. Principles of professional oral communications. Topics and activities may include group problem solving, case studies, and formal presentations on the engineering design process employed by the senior design engineers with which they assisted. Grading will be based on journal submissions, contributions to the design team, and the quality of the presentations. 2-hour lab. Prereq: Engineering Fundamentals 152 and sophomore standing in industrial engineering, or consent of instructor. Satisfactory/No Credit grading only.

**350 Junior Seminar (1)** The role of the industrial engineer in the fields of specialization; necessary training for each specialization, and projected career opportunities. Principles of written communications in science and engineering. Topics and activities include case studies, literature searches, and preparation of written engineering reports including abstracts, executive summaries, and recommendations. 2-hour lab. Prereq: Junior standing in industrial engineering or consent of instructor. Satisfactory/No Credit grading only. **(WC)**

**450 Senior Seminar (1)** Selected topics of interest to industrial engineers, including ethics, life-long learning, contemporary issues in engineering. Formal oral presentations and the preparation of articles by the students on the selected topics. 2-hour lab. Prereq: Senior standing in industrial engineering or consent of instructor. Satisfactory/No Credit grading only.

**427 Introduction to Lean Systems (3)** Introduces a framework to implement improvements within an enterprise. This framework will focus on designing both the physical system and the associated information system. The students will be introduced to the basic concepts of facilities design based upon process design and requirements. The design of the physical and information systems will be based on integrating the concepts, terminology, and tools of lean enterprise and Six Sigma. Activities will include case studies, industry based projects, and the preparation of written engineering reports. Prereq: Senior standing in major or consent of instructor. Coreq: 306, 402.

**454 Visual Basic Applications in Engineering (3)** Fundamentals of designing, implementing, and distributing certain Visual Basic applications. Transform problems into programming paradigms, and encode solutions using the Microsoft Visual Basic 6 rapid application development tool. Develop an understanding of the Visual Basic event-driven programming concepts, terminology, and available tools. Demonstrations and class discussion will supplement the provided class notes. Practical problems and projects will be assigned. Prereq: 421 or consent of instructor.



DROP

**403 Production Facilities Design and Material Handling (3)**

REVISE DESCRIPTION

**421 Information Systems Analysis and Design (3)** Systems engineering approach to analysis and design of systems of information. Topics include: system development life cycle, system analysis methodologies, data analysis techniques, system design, joint application design, and rapid application design. Lab introduces analysis and design software tools. Prereq: Senior standing or consent of instructor.

REVISE DESCRIPTION AND PREREQUISITE

**455 Human-Computer Interaction (3)** Introduction to the analysis, design, production, and implementation of systems requiring interaction between humans and computers (HCI). Includes human sensory systems, human memory capacity, computer hardware/software requirements, input/output device design, and error message handling. Prereq: Junior standing in major and computer programming skills; or consent of instructor.

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**484 Introduction to Maintainability Engineering (3)** *(See Nuclear Engineering 484.)*

## II. Program Changes

### DELETE CATALOG TEXT

- On page 185 of the 2004-2005 Undergraduate Catalog (left column), delete the General Education Electives paragraph.

### REVISE THE INDUSTRIAL ENGINEERING MAJOR

- On page 185 of the 2004-2005 Undergraduate Catalog, revise the requirements for the Industrial Engineering Major to

#### **INDUSTRIAL ENGINEERING MAJOR**

#### **Requirements for the Bachelor of Science in Industrial Engineering**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*, 102* .....	6
Chemistry 120*, 130* .....	8
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158.....	9
<b>Sophomore</b>	
Arts and Humanities Electives* .....	6
Mathematics 200, 231, 241 .....	8
Physics 231* .....	3
Mechanical Engineering 231 .....	3
Industrial Engineering 202, 250* .....	4
Accounting 200 .....	3
Statistics 251 .....	3
Materials Science and Engineering 201 .....	3
<b>Junior</b>	
Electrical and Computer Engineering 301 .....	3
Industrial Engineering 300, 301, 304, 310, 330, 350* .....	16
Economics 201* .....	4
Nuclear Engineering 203 .....	3
<sup>1</sup> Technical Elective .....	3
Social Sciences Elective* .....	3
<b>Senior</b>	
Industrial Engineering 306, 401, 402, 404, 427 .....	13
Industrial Engineering 405, 421, 422, 440, 450 .....	13
Cultures and Civilizations Electives* .....	6
<b>Total</b>	<b>128</b>

\*Meets General Education Requirement. All General Education Electives must be pre-approved by the advisor and the department head.

<sup>1</sup>Technical elective must be taken from the Department of Industrial and information Engineering list of approved courses, or be approved by the advisor and the department head.

NOTE: Students must meet the University General Education Requirement for Communicating Orally by selecting a course with an OC designation.

## DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

### I. Course Changes

#### Materials Science And Engineering (638)

ADD

**101 Advances in Materials Science and Engineering (1)** Review modern advances in Materials Science and Engineering. Expose students to a variety of materials science and engineering case studies to demonstrate the societal impact of materials science and engineering profession. Satisfactory/No Credit grading only.

**250 Introduction to Materials Kinetics and Transport Phenomena (4)** Mass and energy balances; reaction kinetics; steady state and transient heat transfer; viscous flow of gases and liquids; applications to synthesis and processing of engineering materials and technologies; analytical and numerical problem solving. 3 hours lecture, 1 hour lab. Prereq: Mathematics 142; Coreq: MSE 201, Mathematics 231.

**260 Materials Engineering Thermodynamics (3)** Thermodynamic laws; entropy, internal energy, state functions; one- component and two-component phase equilibria; characteristics of small and large molecular systems; surface energy; elasticity; material defects. Prereq: Engineering Fundamentals 152, Chemistry 130, Mathematics 142. Coreq: 201.

**350 Principles of Electronic, Optical and Magnetic Materials (3)** Fundamental electronic, optical, and magnetic properties of solid state materials. Basic bonding and crystallography correlations to electronic, optical, and magnetic properties of materials. Specific subjects that will be covered include: wave properties of electrons, Schrodinger's equation, energy bands in crystals, electrical conduction in metals and semiconductors, classical and quantum mechanical treatments of optical properties, and magnetic phenomena. Prereq: 201.

DROP

**443 Polymer Processing (3)**

**444 Plastic Fabrication and Design (3)**

**380 Materials Selection in Design (3)**

ADD

**480 Materials Selection in Design (3)** Systematic materials selection in design. Review of material properties; use of property selection charts and indices. Materials selection, with and without shape constraints; materials processing in design; case studies. Sources of material property data, utilization of material data bases. Industrial design, aesthetics, economics, regulations, forces for changes. Prereq: Junior standing.

DROP

**402 Principles of Metallic Materials (3)**

ADD

**390 Principles of Metallic Materials (3)** Property control through composition, mechanical and thermal processing; ferrous and nonferrous alloys; alloy selection. Prereq: 201.

**Reference Chart for Curriculum System Entry**

Current course (638) Materials Science and Engineering	Fall 2005 (638) Materials Science and Engineering
MSE 380	MSE 480
MSE 402	MSE 390

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**301 Application of Statistical and Numerical Techniques in Engineering (3)** (See *Chemical Engineering 301.*)

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**484 Introduction to Maintainability Engineering (3)** (See *Nuclear Engineering 484.*)

## REVISE DESCRIPTION

**302 Mechanical Behavior of Materials I (3)** Fundamentals of deformation and fracture in solids including metals, ceramics, polymers, and composites. Topics include: stress and strain tensors; isotropic and anisotropic elasticity; anelastic and viscoelastic deformation; plasticity; tensile testing; mechanisms of plastic deformation in crystalline solids; basic strengthening mechanisms; elementary fracture mechanics. Prereq: 201 or consent of instructor.

## REVISE CREDIT HOURS, DESCRIPTION, PREREQUISITE

**320 Diffusion and Phase Transformations (3)** Introduction to diffusion in solids; the diffusion equations, point defects and atomic mechanisms of diffusion. Thermodynamics of phase equilibrium. Introduction to the kinetics and morphology of phase transformations. Prereq: 201, 250, 260.

## REVISE PREREQUISITE

**201 Introduction to Materials Science and Engineering (3)** Prereq: Chemistry 120.

## REVISE REPETITION

**290-291 Materials Seminar (0,1)** Professionalism, ethical considerations, safety, patents, product liability, field trips, industrial speakers, materials science in a global/societal context, teamwork, contemporary issues, life-long learning. May be repeated up to four times. Satisfactory/No Credit grading only.

## II. Program Changes

## REVISE GENERAL EDUCATION REQUIREMENT FOR MATERIALS SCIENCE AND ENGINEERING MAJOR

- On Page 185-186 of the undergraduate catalog revise the text of Bachelor of Science Program (Materials Science and Engineering major) text to reflect the University General Education Requirement and revised educational objectives to

**Bachelor of Science Program**

Materials science and engineering is concerned with the science and technology needed to develop and apply materials for the benefit of society. The undergraduate program is designed to prepare students to undertake materials science and engineering careers or to enter graduate programs in this or related disciplines. The following specific Materials Science and Engineering Program Educational Objectives were established in consultation with our students, faculty, potential employers, and alumni to assure that students are well prepared to undertake careers or graduate programs, and that our students graduate with an undergraduate education that will sustain them for their lifetime.

During the initial stages of their careers graduates will be prepared to:

- Apply knowledge of the fundamentals of physical and chemical sciences, mathematics, and engineering sciences in the practice of materials science and engineering or in advanced professional studies;
- Design components, systems, or processes and/or select materials for specific applications with consideration of economic, safety, environmental, and social issues;
- Apply professional skills in such areas as communication, problem solving, and experience in working in diverse teams, to the practice of materials engineering in contemporary and global environs;
- Use the general education component of their education for the appreciation of cultural and social values, for understanding the impact of engineering solutions on society, and for personal development.

These Educational Objectives are consistent with the Mission Statement of the University. They particularly relate to "committed to the development of individuals and society as a whole through the cultivation and enrichment of the human mind and spirit." They are consistent with EAC/ABET General Criteria to assure quality and stimulate improvement.

The field of materials science and engineering is quite broad, encompassing metallic, ceramic and polymeric materials, as well as composites made from combinations of materials and specialty application areas such as electronic and optical materials.

Consequently the curriculum contains a central core of courses that are applicable to all materials types with flexibility in the upper division years to permit concentration and in-depth coverage of specific materials categories. By judicious choice of electives the student may get a broad perspective or may develop a specialty area.

A minimum of 18 semester-hours of general education courses are required by all engineering degree programs in order to meet the University of Tennessee, Knoxville, general education goals, see The University General Education Requirement section in the front of this catalog. The major in materials science and engineering specifically requires that (1) Economics 201 be taken as one of the two courses required in the Social Sciences cluster, (2) any two approved courses under the Arts or

Humanities cluster, (3) any two approved courses under the Cultures and Civilizations cluster. The requirement for three courses in writing communication may be filled by English 101 and 102 plus MSE 405 (or other approved writing intensive course). The requirement for one course in communicating orally may be filled with MSE 489 (or other approved communicating orally course).

Graduation in materials science and engineering requires a minimum grade point average of 2.00 for all departmental courses.

REVISE MATERIALS SCIENCE AND ENGINEERING MAJOR

- On page 186 of the 2004-2005 Undergraduate catalog, revise the Materials Science and Engineering showcase to

**MATERIALS SCIENCE AND ENGINEERING MAJOR**  
**Requirements for the Degree of Bachelor of Science in Materials Science and Engineering**

	Hours Credit
<b>Freshman</b>	
Materials Science and Engineering 101 .....	1
English 101*, 102* .....	6
Chemistry 120*, 130* .....	8
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158 .....	9
<b>Sophomore</b>	
Materials Science and Engineering 201, 250, 260, 290, 291 .....	11
Physics 231*, 232* .....	7
Mathematics 200, 231, 241 .....	8
<sup>1</sup> General Education Electives* .....	6
<b>Junior</b>	
Materials Science and Engineering 300, 301, 302, 304, 320, 340, 350, 360, 370, 390 .....	26
<sup>1</sup> General Education Elective* .....	3
Technical Elective .....	3
<b>Senior</b>	
Materials Science and Engineering 405*(WC), 480, 489*(OC) .....	10
<sup>2</sup> Materials Science and Engineering Electives .....	6
Electrical and Computer Engineering 301 .....	3
Engineering Fundamentals 402 .....	1
Technical Elective .....	3
<sup>1</sup> General Education Electives* .....	9
<hr/> Total 128 <hr/>	

\*Meets University General Education Requirement.

<sup>1</sup>General Education courses must include Economics 201, any two approved courses under the Arts or Humanities cluster, any two approved courses under the Cultures and Civilizations cluster, and one approved course in the Social Sciences cluster.

<sup>2</sup> Materials Science and Engineering electives: 410, 421, 429, 445, 470, 472, 474, 484, 494, 495.

REVISE MATERIALS SCIENCE AND ENGINEERING MINOR

- On page 186 of the undergraduate catalog describing the Minor in Materials Science and Engineering revise the Requirements Paragraph to

**Requirements.** Required courses: Materials Science and Engineering 201 and 480. Choose at least one: Materials Science and Engineering 320, 340, 360, 410, and 472....

**DEPARTMENT OF MECHANICAL, AEROSPACE, AND BIOMEDICAL ENGINEERING****I. Course Changes****Aerospace Engineering (018)**

ADD

**410 Professional Development (2)** Topics relating to professional responsibility, communications, and organization. Formal oral presentation by each student on an engineering topic chosen by the student and approved by the Instructor. Prereq: English 102, Senior standing.

DROP

**431 Seminar (1)**

REVISE DESCRIPTION

**426 Introduction to Aerospace Design (2)** Design process, synthesis, design studies. Individual design reports required. Prereq: 351, 370, 363. Coreq: Mechanical Engineering 344.

REVISE DESCRIPTION AND CREDIT HOURS

**425 Propulsion (4)** Principles of propulsion devices, principally jet and rocket engines. Combustion and equilibrium, inlets, nozzles, compressors, pumps and turbines. Overall performance evaluations. Prereq: 351.

REVISE DESCRIPTION, CREDIT HOURS, PREREQUISITES

**370 Airplane Performance (4)** Airplane aerodynamics, characteristics of propulsion systems, prediction of airplane performance, static and dynamic stability and control of aircraft. Coreq: 341.

**424 Astronautics (4)** Solar system, orbital mechanics, propulsion, atmospheric entry including thermal protection materials, human factors in space flight, the space environment, and current topics. Prereq: 351. Coreq: Mechanical Engineering 331.

REVISE CREDIT HOURS

**429 Aerospace System Design (3)** (Formerly: 4)**Biomedical Engineering (192)**

ADD

**410 Professional Topics (2)** Topics relating to professional responsibility, communications, and organization. Formal oral presentation by each student on an engineering topic chosen by the student and approved by the Instructor. Prereq: English 102, senior standing. **(OC)**

DROP

**346 Design of Experiments (3)****431 Biomedical Seminar (1)****435 Bioinstrumentation (3)**

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

**271 Biomedical Engineering Principles (3)** Application of engineering principles and methods to problem solving in the life sciences and medicine. Prereq: Engineering Fundamentals 152.

REVISE CREDIT HOURS

**430 Biomedical Engineering Laboratory (4)****320 FDA Regulation of Medical Devices (2)****469 Biomedical Engineering Design II (3)**

**Mechanical Engineering (650)**

ADD

**406 Product Development, Evaluation, and Selection (3)** Fundamentals of product development and project management. Evaluation of multiple technological products for business potential. Technological feasibility, marketing potential, design and manufacturing requirements. Prereq: Senior standing or consent of instructor.

**410 Professional Development (2)** Topics relating to professional responsibility, communications, and organization. Formal oral presentation by each student on an engineering topic chosen by the student and approved by the Instructor. Prereq: English 102, Senior standing. **(OC)**

**450 Mechanical Engineering Design I (1-4)** Design process, synthesis, design studies. Coreq: 363. May be taken once for 1-4 hours credit.

**457 Engineering Entrepreneurship (3)** Technology and innovation, technology transfer, patent protection, legal formation and intellectual property, knowledge management, generation, and transmission, creating a business plan and marketing plan, launching a technology based business, sources of capital, small business growth and operation. Prereq: Senior standing or consent of instructor.

**460 Mechanical Engineering Design II (1-4)** Synthesis and design of a complete mechanical engineering system. Participation in team design effort including formal oral presentations and written design report. Prereq: 450. May be taken once for 1-4 hours credit.

**463 Mechanical Vibration (3)** Free and forced response of systems with multiple degrees of freedom. Response to arbitrary excitation. Lagrange's equations. Introduction to continuous systems. Vibration absorbers and rotor balancing. Prereq: 363.

**467 Smart Structures and Materials (3)** Fundamentals of electromechanical properties of ferroelectric materials (piezoelectric and electrostrictive), shape memory alloys, and other electrically and magnetically activated materials, with application. Course includes semester project. Prereq: 231, 321.

**480 Introduction to Hybrid Electric Vehicles (3)** Steady-state HEV force and power modeling. Introduction to internal combustion engines, motors, energy storage systems and control strategies. Powertrain design and analysis using various computer simulation tools. Coreq: 475.

DROP

**332 Thermodynamics II (3)****402 Fundamentals of Engineering (1)****431 Seminar (1)****455 Introduction to Machine Design (2)****456 Introduction to Thermal Design (2)****469 Machine Design (4)****479 Thermal Engineering Design (4)**

REVISE TITLE AND DESCRIPTION

**365 Mechanisms (3)** Kinematics and dynamics of mechanical linkages, gears and cams. Balancing of multicylinder engines. Prereq: 231.

REVISE TITLE, DESCRIPTION, PREREQUISITES

**331 Thermodynamics (3)** Energy and laws governing energy transformations; thermodynamic properties; thermodynamic cycles; ideal gas mixtures; application to engineering problems. Coreq: Mathematics 241.

REVISE TITLE, DESCRIPTION, PREREQUISITES/COREQUISITES

**363 System Dynamics (3)** Free and forced vibrations of damped and undamped lumped parameter systems; transient and frequency response of lumped parameter systems; introduction to feedback control systems. Coreq: 345.

REVISE TITLE, DESCRIPTION, PREREQUISITES

**451 Control Systems (3)** Analysis and design of feedback control systems using transient and frequency response techniques, stability analysis in the time and frequency domain. Prereq: 363.

## REVISE DESCRIPTION AND PREREQUISITES

**475 Thermal Engineering (3)** Thermal systems with emphasis on turbomachinery, heat exchangers, gas-vapor mixtures and psychrometry, fuels and combustion; chemical equilibrium; system analysis and design. Prereq: 344.

## REVISE PREREQUISITE

**231 Dynamics (3)** Prereq: Engineering Fundamentals 152, 202; Mathematics 142.

**321 Mechanics of Materials I (3)** Prereq: Engineering Fundamentals 152, 202; Mathematics 241.

**391 Engineering Analysis (3)** Prereq: Engineering Fundamentals 152; Mathematics 200, 231.

**449 Mechanical Engineering Laboratory (3)** Prereq: 344, 345. Coreq: 475.

## REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

**484 Introduction to Maintainability Engineering (3)** (*See Nuclear Engineering 484.*)

## II. Program Changes

## REVISE AEROSPACE ENGINEERING CATALOG TEXT

- On page 188 of the 2004-2005 Undergraduate Catalog, second column, top, revise to

The educational objectives of the aerospace engineering program are

- to provide students with a comprehensive education that includes in-depth instruction in aerodynamics, structures, flight mechanics, orbital mechanics, flight propulsion, and the design of aerospace systems
- to prepare students for professional careers in aerospace engineering by developing the skills pertinent to problem solving, analysis, design, and those personal skills required for teamwork and effective communication
- to provide opportunities to develop and cultivate life-long learning skills, individual professionalism and ethics
- to prepare some students for graduate study at major universities limited by student desire and their mental ability and agility



REVISE AEROSPACE ENGINEERING MAJOR

- On page 188 of the 2004-2005 Undergraduate Catalog, revise the Aerospace Engineering showcase to

**Requirements for the Bachelor of Science in Aerospace Engineering**

**Hours Credit**

**Freshman**

English 101*, 102* .....	6
Chemistry 120* .....	4
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158, 202 .....	11
<sup>1</sup> Social Sciences Elective* .....	3

**Sophomore**

Mathematics 200, 231, 241 .....	8
Aerospace Engineering 201 .....	1
Physics 231*, 232 .....	7
Mechanical Engineering 231, 321, 391 .....	9
Materials Science and Engineering 201 .....	3
Engineering Fundamentals 230 .....	2
Economics 201* .....	4

**Junior**

Aerospace Engineering 341, 345, 351, 363, 370 .....	16
Mechanical Engineering 331, 344, 363 .....	9
Electrical and Computer Engineering 301 .....	3
Philosophy 241* .....	3
<sup>1</sup> Arts and Humanities Elective* .....	3

**Senior**

Aerospace Engineering 410*, 422, 424, 425, 426, 429, 449 .....	21
Engineering Fundamentals 402 .....	1
<sup>1</sup> Cultures and Civilizations Electives* .....	6

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Total 128

\* Meets University General Education Requirement.

<sup>1</sup> Choose from the University General Education list.

REVISE AEROSPACE ENGINEERING MINOR

- On page 188 of the 2004-2005 Undergraduate Catalog, second column, last paragraph, revise to

**Minor in Aerospace Engineering**

A coursework program leading to a minor in aerospace engineering for students in other engineering degree programs is also offered.

Aerospace Engineering 341, Mechanical Engineering 231, 321, and 332 or equivalent background are prerequisites to a minor in aerospace engineering. The minor consists of five of the following six aerospace engineering courses: 351 (3), 363 (3), 370 (4), 422 (3), 424 (4), and 425 (4). The grade in each of the aerospace engineering courses must be at least C. Prerequisites will be checked the first day of class every term for each of the aerospace engineering courses.

REVISE BIOMEDICAL ENGINEERING MAJOR

- On page 189 of the 2004-05 Undergraduate Catalog, revise the Biomedical Engineering showcase to

**Requirements for the Bachelor of Science in Biomedical Engineering**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*, 102* .....	6
Chemistry 120*, 130* .....	8
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158, 202 .....	11
<b>Sophomore</b>	
Engineering Fundamentals 230. ....	2
Physics 231*, 232* .....	7
Mathematics 200, 231, 241 .....	8
Mechanical Engineering 231, 321 .....	6
Biology 140 .....	4
<sup>1</sup> Cultures and Civilizations Elective * .....	3
Biomedical Engineering 271 .....	3
<b>Junior</b>	
Electrical and Computer Engineering 300, 315 .....	8
Aerospace Engineering 341 .....	3
Biomedical Engineering 300, 310, 320 .....	8
Mechanical Engineering 331 .....	3
Philosophy 241* .....	3
Materials Science and Engineering 201 .....	3
Economics 201* .....	4
<b>Senior</b>	
Engineering Fundamentals 402 .....	1
Biomedical Engineering 410*, 430, 455, 469 .....	11
<sup>1</sup> Cultures and Civilizations Elective* .....	3
<sup>2</sup> Technical Elective .....	3
<sup>2</sup> Departmental Elective .....	3
<sup>1</sup> Arts and Humanities Elective * .....	3
<sup>1</sup> Social Sciences Elective* .....	3
Statistics 251 .....	3
<b>Total 128</b>	

\* Meets University General Education Requirement.  
<sup>1</sup> Choose any course from the University General Education list.  
<sup>2</sup> Departmental and technical electives must be pre-approved by the advisor and department head.

REVISE MECHANICAL ENGINEERING MAJOR

- On page 188 of the 2004-2005 Undergraduate Catalog, revise the Mechanical Engineering showcase to

**Requirements for the Bachelor of Science in Mechanical Engineering**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*, 102 .....	6
Chemistry 120* .....	4
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158, 202 .....	11
<sup>1</sup> Cultures and Civilizations Elective* .....	3
<b>Sophomore</b>	
Mathematics 200, 231, 241 .....	8
Engineering Fundamentals 230 .....	2
Physics 231* .....	3
Mechanical Engineering 231, 321, 391 .....	9
Materials Science and Engineering 201 .....	3
Economics 201* .....	4
<sup>1</sup> Cultures and Civilizations Elective * .....	3
<b>Junior</b>	
Mechanical Engineering 331, 344, 345, 363, 366, 466 .....	18
Electrical and Computer Engineering 301 .....	3
<sup>2, 3</sup> Departmental Elective .....	3
Aerospace Engineering 341 .....	3
<sup>1</sup> Arts and Humanities Elective* .....	3
<b>Senior</b>	
Mechanical Engineering 410*, 475, 449, 450, 460 .....	13
Engineering Fundamentals 402 .....	1
Mechanical Engineering 365 or 463 .....	3
<sup>3</sup> Technical Elective .....	3
<sup>2, 3</sup> Departmental Electives .....	6
Philosophy 241* .....	3
<sup>1</sup> Social Sciences Elective* .....	3
<hr/> Total 126 <hr/>	

\* Meets University General Education Requirement.

<sup>1</sup>Choose any course from the University General Education list.

<sup>2</sup>Must be chosen from: Aerospace Engineering 351, 363, 422, 425; Mechanical Engineering 365, 406, 451,452, 457, 463, 467, 480 or other departmentally approved course.

<sup>3</sup>All departmental and technical electives must be pre-approved by the advisor and department head.

**DEPARTMENT OF NUCLEAR ENGINEERING****I. Course Changes****Nuclear Engineering (716)**

REVISE TITLE OF CROSS-LISTED PRIMARY COURSE

**484 Introduction to Maintainability Engineering (3)** (Same as Chemical Engineering 484; Industrial Engineering 484; Materials Science and Engineering 484; Mechanical Engineering 484.)

REVISE DESCRIPTION

**301 Fundamentals of Nuclear and Radiological Engineering (3)** Nuclear systems, radiation interactions and decay, health physics, cross sections, basic nuclear reactor theory concepts, introduction to FORTRAN programming. Prereq: Physics 232, Mathematics 231.**II. Program Changes**

REVISE THE NUCLEAR ENGINEERING MAJOR

- On page 190 of the 2004-2005 Undergraduate Catalog, revise the requirements for the Nuclear Engineering Major to

**Requirements for the Bachelor of Science in Nuclear Engineering**

	<b>Hours Credit</b>
<b>Freshman</b>	
Chemistry 120*, 130* .....	8
English 101*, 102* .....	6
Engineering Fundamentals 105, 151 or 157, 152 or 158 .....	9
Mathematics 141*, 142* .....	8
<b>Sophomore</b>	
Arts and Humanities Elective* .....	3
Economics 201* or 207* .....	4
Electrical and Computer Engineering 301 .....	3
Engineering Fundamentals 202, 230 .....	4
Mathematics 231, 241 .....	7
Nuclear Engineering 200, 203 .....	4
Physics 231*, 232* .....	7
<b>Junior</b>	
Cultures and Civilizations Elective* .....	3
Mathematics 403 .....	3
Nuclear Engineering 301, 304*, 342, 351, 360, 431, 470 .....	21
Physics 341 .....	3
Social Sciences Elective* .....	3
<b>Senior</b>	
Cultures and Civilizations Elective* .....	3
Engineering Fundamentals 402 .....	1
Materials Science and Engineering 201 .....	3
Mechanical Engineering 321 .....	3
Nuclear Engineering 400*, 403*, 406, 472 .....	11
Philosophy 241*, 243*, or 244* .....	3
Technical Electives** .....	6
<hr/> Total 126	

\*Meets University General Education Requirement.

\*\*Technical electives are selected from upper-division mathematics and engineering courses and must be pre-approved by the department.

REVISE NUCLEAR ENGINEERING MAJOR - RADIOLOGICAL ENGINEERING CONCENTRATION

- On page 190 of the 2004-2005 Undergraduate Catalog, revise the requirements for the Nuclear Engineering Major – Radiological Engineering Concentration to

**Requirements for the Bachelor of Science in Nuclear Engineering—Radiological Engineering Concentration**

	Hours Credit
<b>Freshman</b>	
Chemistry 120*, 130* .....	8
English 101*, 102* .....	6
Engineering Fundamentals 105, 151 or 157, 152 or 158 .....	9
Mathematics 141*, 142* .....	8
<b>Sophomore</b>	
Arts and Humanities Elective* .....	3
Economics 201* or 207* .....	4
Electrical and Computer Engineering 301 .....	3
Engineering Fundamentals 202, 230 .....	4
Mathematics 231, 241 .....	7
Nuclear Engineering 200, 203 .....	4
Physics 231*, 232* .....	7
<b>Junior</b>	
Biology 140 .....	4
Cultures and Civilizations Elective* .....	3
Mathematics 403 .....	3
Nuclear Engineering 301, 304*, 342, 351, 431, 470 .....	18
Physics 341 .....	3
Social Sciences Elective* .....	3
<b>Senior</b>	
Biochemistry and Cellular and Molecular Biology 230 .....	5
Cultures and Civilizations Elective* .....	3
Engineering Fundamentals 402 .....	1
Mechanical Engineering 321 .....	3
Nuclear Engineering 400*, 403*, 406, 472 .....	11
Philosophy 241*, 243*, or 242* .....	3
Statistics 251, Biochemistry and Cellular and Molecular Biology 310, or Chemistry 350 .....	3
Technical Elective** .....	3
<b>Total 129</b>	

\*Meets University General Education Requirement.

\*\*Technical electives are selected from upper-division mathematics, chemistry, and engineering courses and must be pre-approved by the department. Pre-med, pre-vet, and pre-dentistry students must also take Chemistry 360 and Chemistry 369.

**ENGINEERING PHYSICS PROGRAM**

## REVISE THE ENGINEERING PHYSICS MAJOR

- On page 183 of the 2004-2005 Undergraduate Catalog, revise the Engineering Physics major showcase to

**ENGINEERING PHYSICS MAJOR****Requirements for the Bachelor of Science in Engineering Physics**

	<b>Hours Credit</b>
<b>Freshman</b>	
English 101*, 102* .....	6
Mathematics 141*, 142* .....	8
Engineering Fundamentals 105, 151 or 157, 152 or 158 .....	9
Chemistry 120*, 130* .....	8
<b>Sophomore</b>	
Mathematics 231, 241 .....	7
Computer Science 102 .....	4
<sup>1</sup> Physics 137, 138 .....	10
<sup>2</sup> Engineering/Technical Electives .....	3
Cultures and Civilizations Electives* .....	6
<b>Junior</b>	
Physics 240, 321 .....	6
Physics 311, 312 .....	6
Physics 361 .....	3
Physics 421 .....	4
<sup>2</sup> Engineering/Technical Electives .....	6
Social Sciences Electives* .....	6
<b>Senior</b>	
Physics 411,412 .....	6
Physics 431,432 .....	6
Physics 461 .....	3
<sup>2</sup> Engineering/Technical Electives .....	12
Arts and Humanities Electives* .....	6
<b>Total 125</b>	

\*Meets University General Education Requirement. Students and their advisors are cautioned to ensure that Engineering, Technical, and/or General Education elective course selections meet the General Education Communicating through Writing (WC) and Communicating Orally (OC) requirements.

<sup>1</sup>Transfer students from other engineering departments may substitute Engineering Fundamentals 152 for Physics 137, Physics 231 for Physics 138, and Physics 232 for Physics 240.

<sup>2</sup>A total of 12 hours of engineering electives plus 9 hours of technical electives are required. Engineering electives should form a coherent group of courses taken in the College of Engineering. Technical electives may be taken in physics, engineering, math, other physical sciences, or astronomy.

**COLLEGE OF NURSING****ALL CHANGES EFFECTIVE: FALL 2005 (UNLESS OTHERWISE NOTED\*\*)****I. Course Changes****Nursing (720)**

ADD

**404 Health Promotion, Maintenance, and Restoration in Children, Adolescents, and Their Families (5)** A family-centered approach to the nursing care of children and adolescents. The nursing process is used as the basis for promoting, maintaining, and restoring health and facilitating adaptation in the child-rearing family. Clinical experiences in selected agencies provide experience with children and adolescents in both community and acute care facilities. 2 lecture and 3 lab.

**444 Care of Children, Adolescents, and Their Families (2)** A family-centered approach to the nursing care of children and adolescents. The nursing process is used as the basis for promoting, maintaining, and restoring health and facilitating adaptation in the child-rearing family. For master's entry students only.

DROP

**482 Health Maintenance and Restoration in Community (4)**

REVISE TITLE, DESCRIPTION, PREREQUISITE/COREQUISITE

**361 Health Maintenance and Restoration: Adult (5)** Focus on health maintenance and restoration of adults experiencing commonly occurring acute or chronic illness. Presentation of illnesses and critical indicators of underlying conditions will be identified for the younger adult as compared to the older adult. 3 lecture and 2 lab. Prereq: 311, 319, 333.

REVISE TITLE, DESCRIPTION, CREDIT HOURS, PREREQUISITE

**461 Health Restoration: Adult (4)** Focus on nursing practice for health restoration of adults with acute, complex health needs. Emphasis on quality of care, coordination of care, and end of life care. 2 lecture and 2 lab. Prereq: 361, 382.

REVISE CREDIT HOURS, TITLE, DESCRIPTION, PREREQUISITE

**382 Health Promotion and Maintenance in the Community (5)** Focus on nursing care of at-risk populations in the community and national health promotion objectives. Analysis of community health needs. Design and implementation of nursing interventions to promote and maintain health. 3 lecture and 2 lab. Prereq: 311, 319, 333. Coreq: 351, 361.

REVISE TITLE, DESCRIPTION

**381 Professional Development in Nursing (2)** Emphasis on development of personal attributes necessary for professional practice such as: emotional intelligence, caring, critical thinking, decision making, problem solving, motivation and management of time, stress, and anger. The course content also includes theories and principles of interpersonal capacities and strategies used in any health care setting such as communication, delegation, and management of teams, conflicts, and changes. Prereq: 311, 341.

REVISE DESCRIPTION, PREREQUISITE

**451 Interpersonal Management Skills in Nursing (2)** Focus on concepts and strategies for leadership as a professional nurse. Application of common workplace issues that affect nursing practice. Prereq: 381, senior.

REVISE TITLE, CREDIT HOURS, DESCRIPTION,

**452 Professional and Workplace Issues (1)** Focus on nursing ethics and moral development, using scenarios from everyday practice. Prereq: 451.

REVISE CREDIT HOURS

**305 Transitions to Professional Nursing (4)** 3 lecture and 1 lab.

**\*\*The revision in hours for 305 is effective: Summer 2005**

**341 Transcultural Nursing (2)** Formerly: (3)

**421 Mental Health Maintenance and Restoration (5)** 3 lecture and 2 lab.

## REVISE COREQUISITES

**490 Specialty Preceptorship (4)** Coreq: Graduation term.

## II. Program Changes

## REVISIONS TO NURSING MAJOR

- On Page 192 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, ADD a new #6 and renumber remaining items in that section.

6. To pass any clinical course, a student must achieve a minimum average of 70% across all examinations in the course, regardless of any other grades earned in other components of the course. If a student fails to achieve the minimum 70% average on course examinations, the final course grade recorded will be either D (60-69%) or F (under 60%).

- On Page 192 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, REVISE (old #8; new #9).

From

8. At periodic intervals specified by the faculty, students must take comprehensive examinations designed to predict success on the NCLEX (licensure) examination. Any student making less than an 85% predictability score at the end of the junior year must take a one-hour independent study course during the summer before starting the senior clinical courses. Seniors will have two opportunities to achieve an 85% predictability score on an exit exam given prior to graduation. Students who make less than 85% on the second attempt of the exit exam must take an NCLEX review course and provide proof of completion of the course. They will also take the exit exam a third time. Upon completion of the review course and the third exit exam, the dean will sign off on permission for the graduate to sit for the NCLEX examination.

To

9. At periodic intervals specified by the faculty, students must take comprehensive examinations designed to predict success on the NCLEX (licensure) examination. Any student scoring less than 850 at the end of the junior year must take a one-hour independent study course during the summer before starting the senior clinical courses. Seniors will have two opportunities to achieve 850 on an exit exam given prior to graduation. A student who does not score 850 on the second exit exam at the end of spring term will be given an "I" in 490 (Specialty Preceptorship). The student will be given the opportunity to remediate and take a third exit exam no sooner than six weeks after the second exit exam. If the student does not score 850 on the third exit exam, the student will receive a failing grade for 490 and may be eligible to retake 490 in the fall term. If a failure of 490 is a second failure in the nursing program for this student, then the student is dismissed from the BSN program.

- On Page 193 of the 2004-2005 Undergraduate Catalog, 1st column, RN Track for Bachelor of Science in Nursing, Revise #2 and #3 and #6

To

2. Students will take the NLN ACE examinations prior to starting upper division coursework. If a decision score of 100 is achieved (per section) the student will receive proficiency credit for five of the major clinical nursing courses exclusive of Community Health. Courses for which credit can be obtained in this manner include 361, 403, 404, 461, and 421, and are indicated with a double asterisk. (Satisfactory/No Credit)

3. All students take the community course: 382.

6. The entire upper-division nursing curriculum can be completed in one calendar year. Students not enrolled in nursing courses for two consecutive semesters, excluding summer, will be administratively withdrawn from the program. Those seeking reentry must reapply to the College of Nursing. Students accepted for the master's program can begin part-time graduate level study while in the final semester of the undergraduate program.



REVISE SHOWCASE

➤ On page 193 of the 2004-2005 Undergraduate Catalog, first column, revise to

**Requirements for the Bachelor of Science in Nursing**

<b>Freshman</b>	<b>Hours Credit</b>
English 101*, 102* .....	6
Mathematics 125* .....	3
Statistics 201* .....	3
Chemistry 100*-110* or 120*-130* .....	8
Arts and Humanities* .....	6
Psychology 110* .....	3
Sociology or Anthropology .....	3
Biology 101* .....	4
<b>Sophomore</b>	
▪ Ecology and Evolutionary Biology 240 (Anatomy) .....	4
▪ Biochemistry and Cellular and Molecular Biology 230 (Physiology) .....	5
Microbiology 210* .....	3
Nutrition 100* or 300.....	3
Child and Family Studies 210* .....	3
Nursing 201 (Introduction to Nursing) .....	2
Cultures and Civilizations* .....	6
Philosophy 246* .....	3
<b>Junior</b>	
Nursing 311, 319, 333, 341, 351, 361, 381, 382.....	28
<b>Senior</b>	
Nursing 403*, 404, 406, 421, 451, 452, 461, 471, 490.....	31
<b>Total</b>	<b>124</b>

\* Meets University General Education Requirement. See catalog listing for approved courses in Arts and Humanities (AH) and Cultures and Civilizations (CC).

▪ Transfer students need a total of at least 8 credit hours in Anatomy and physiology and may graduate with 123 hours.

NOTE: Students must meet the University General Education Requirement for Communicating Orally by selecting a course with an OC designation.

The following courses are open to all university students: Nursing 202, 314, 351, 400, 402, 406, and 480.

REVISE SHOWCASE (RN TRACK)

➤ On page 193 of the 2004-2005 Undergraduate Catalog, 2<sup>nd</sup> column, revise to

**RN Track Courses for Bachelor of Science in Nursing**

	<b>Hours Credit</b>
201 Introduction to Nursing (proficiency credit for all RNs) .....	2
305 Transition to Professional Nursing .....	4
319** Pathophysiology .....	4
333** Health Assessment.....	3
341 Transcultural Nursing .....	2
351** Pharmacology I.....	2
361** Health Maintenance and Restoration: Adult .....	5
382 Health Promotion and Maintenance in Community .....	5
<sup>1</sup> 403** Health Promotion and Maintenance in Childbearing Families .....	5
404** Health Promotion, Maintenance, and Restoration in Children, Adolescents, and Their Families.....	5
406** Pharmacology II.....	2
421** Health Maintenance and Restoration in Mental Health .....	5
454* Professional Leadership Issues.....	2
461** Health Restoration: Adult.....	4
471 Nursing Research .....	3
490 Specialty Preceptorship .....	4
Electives .....	3
Total 123	

\* Meets University General Education requirement.

\*\* Courses with double asterisks may receive proficiency credit or be challenged.

<sup>1</sup>RN-BSN students receiving proficiency credit for Nursing 403 (writing-intensive course) must meet the requirements for a third writing-intensive course by taking one of the courses so designated in the current Undergraduate Catalog. Philosophy 246 meets that requirement.

## COLLEGE OF SOCIAL WORK

### REVISE MATHEMATICS REQUIREMENT FOR BACHELOR OF SCIENCE IN SOCIAL WORK

- On page 196 of the 2004-2005 Undergraduate Catalog, make the following change to the Social Work showcase

From

Mathematics 110\* ..... 3

To

Mathematics 113\* ..... 3

Change footnote 4 as follows:

Delete Philosophy 240. Add Philosophy 244, 245, 246.

**Effective: Fall 2005**

## GENERAL EDUCATION COMMITTEE REPORT

### Changes to the General Education Requirement approved by the General Education Committee

Effective: Fall 2005

#### 1. Add

After the statement, "These are the General Education Requirements;" add (See Notes)

#### 2. Communication through Writing

Clarify first sentence:

From

Communication through Writing (3 courses):

To

Communication through Writing (3 courses including English 101 and 102 plus an approved writing-intensive course:

In the second paragraph add: (see Note 4.)

#### 3. Communicating Orally

Revise second sentence:

From

The well-educated person should be able.....

To

Students should be able to.....

At the end of the first paragraph, add: (see Note 5.)

#### 4. Quantitative Reasoning

In the second paragraph: Change Mathematics 110 to Mathematics 113.

#### 5. Natural Sciences

Revise from

Approved Natural Sciences (NS) Courses:

To

Approved Natural Sciences (NS) Courses: († Classes with no lab.)

#### 6. Cultures and Civilizations

Clarification from:

This requirement is satisfied by

(1) taking two courses from the following list or

(2) taking two courses in a foreign language at the intermediate level

To

This requirement is satisfied by either of the following:

(1) taking two courses from the following list

or

(2) taking a two-course sequence in a foreign language at the intermediate level.

Revise heading from:

Intermediate Foreign Language Courses:

To

Intermediate Foreign Language Sequences:

**7. Replace Notes with the following:**

## NOTES

- (1) Some courses on the various General Education course lists may have prerequisites. Students are responsible for meeting all course prerequisites.
- (2) A student's College/program may require specific General Education courses.
- (3) General Education courses must be taken for a letter grade (i.e., A-F) rather than Satisfactory/No Credit (unless this is the only way the course is offered).
- (4) See College of Arts and Sciences Basic Skills Requirement- Communicating through Writing in the Undergraduate Catalog for information on course equivalencies for English 101 and 102.
- (5) The Office of Disability Services (ODS) is committed to providing equal opportunities for students with disabilities at the University of Tennessee. Appropriate accommodations will be made to enable persons with disabilities to satisfy the General Education requirements. Students with documented disabilities should contact the Office of Disability Services for assistance with appropriate accommodations at (865) 974-6087 or [ods@tennessee.edu](mailto:ods@tennessee.edu).
- (6) Subcommittees of the Undergraduate Council General Education Committee are charged with management of the courses to be included on the General Education course lists for the Basic Skills and Broadened Perspectives areas. The most current list of General Education courses is posted at <http://web.utk.edu/~ugcouncil>.

**GENERAL EDUCATION REQUIREMENT:  
COURSE ADDITIONS AND DELETIONS  
(January 2005)**

**Communicating through Writing (WC)****ADD*****Agricultural and Extension Education***

440 Communication Techniques in Agriculture

***Electrical and Computer Engineering***

400 Senior Design

***Forestry***

321 Wildland Recreation

***Industrial Engineering***

350 Junior Seminar

***Information Sciences***450 Writing About Science and Medicine (*same as Journalism and Electronic Media 450*)***Journalism and Electronic Media***

414 Magazine and Feature Writing

444 Journalism as Literature

450 Writing About Science and Medicine (*same as Information Sciences 450*)

451 Environmental Writing

456 Science Writing as Literature

***Materials Science and Engineering***

405 Structural Characterization of Materials

***Musicology***

220 History of Music II

330 Women and Music (*same as Women's Studies 330*)

380 Music in World Cultures

430 Symphonic Literature

***Nutrition***

412 Food and Nutrition in the Community

***Philosophy***

241 Engineering Ethics

243 Business Ethics

246 Bioethics (*same as Religious Studies 246*)

340 Ethics

***Plant Sciences***

448 Horticultural Internet Technology

***Religious Studies***246 Bioethics (*same as Religious Studies 246*)***Russian***

221 Rebels, Dreamers and Fools: The Outcast in 19th Century Russian Literature

***University Honors***

257 Special Topics in Arts and Humanities

267 Special Topics In Social Sciences

277 Special Topics in Cultures and Civilizations

**DROP*****Music History***

210 History of Music I

220 History of Music II

330 Women in Music (*same as Women's Studies 330*)

430 Symphonic Literature

**Philosophy**

- 240 Ethics
- 242 Ethical Theory and Its Applications
- 342 Business Ethics
- 345 Bioethics
- 346 Environmental Ethics

**Religious Studies**

- 345 Bioethics

**Communicating Orally (OC)**

**ADD**

**Aerospace Engineering**

- 410 Professional Development

**Animal Science**

- 360 Horse, Dairy, and Meat Animal Evaluation

**Biology**

- 157 Honors Experimental Biology

**Biomedical Engineering**

- 410 Professional Topics

**Biosystems Engineering**

- 401 Biosystems Engineering Design I

**Electrical and Computer Engineering**

- 400 Senior Design

**Legal Studies**

- 244 Professional Responsibility (*same as Philosophy 244; Religious Studies 244*)

**Mechanical Engineering**

- 410 Professional Development

**Nuclear Engineering**

- 400 Senior Seminar

**Philosophy**

- 244 Professional Responsibility (*same as Legal Studies 244; Religious Studies 244*)

**Religious Studies**

- 244 Professional Responsibility (*same as Philosophy 244; Legal Studies 244*)

**DROP**

**Legal Studies**

- 344 Professional Responsibility (*same as Philosophy 344; Religious Studies 344*)

**Nursing**

- 452 Professional and Workplace Issues in Nursing

**Philosophy**

- 344 Professional Responsibility (*same as Legal Studies 344; Religious Studies 344*)

**Religious Studies**

- 344 Professional Responsibility (*same as Legal Studies 344; Philosophy 344*)

**Quantitative Reasoning (QR)****ADD****Mathematics**

- 113 Mathematical Reasoning
- 117 Honors Mathematical Reasoning

**University Honors**

- 187 Quantitative Reasoning Honors Seminar

**DROP****Mathematics**

- 110 Algebraic Reasoning

**Natural Sciences (NS)****ADD****Biology**

- 111-112 General Botany
- 157 Honors Experimental Biology

**Astronomy**

- 151 A Journey through the Solar System
- 152 Stars, Galaxies, and Cosmology
- 161 A Journey through the Solar system with Laboratory
- 162 Stars, Galaxies, and Cosmology with Laboratory

**DROP****Botany**

- 110-120 General Botany

**Astronomy**

- 151-152 Introductory Astronomy
- 161-162 Introductory Astronomy with Laboratory

**Arts and Humanities (AH)****ADD****Classics**

- 221 Early Greek Mythology
- 222 Classical Greek and Roman Mythology

**Legal Studies**

- 244 Professional Responsibility (*same as Philosophy 244; Religious Studies 244*)

**Musicology**

- 110 Introduction to Music in Western Culture
- 115 Music in the United States
- 120 History of Rock
- 125 Jazz in American Culture
- 210 History of Music I
- 220 History of Music II
- 290 Introduction to World Musics

**Philosophy**

- 117 Honors Introduction to Philosophy
- 118 Honors Introduction to Philosophy
- 241 Engineering Ethics
- 242 Contemporary Moral Issues
- 243 Business Ethics
- 244 Professional Responsibility (*same as Legal Studies 244; Religious Studies 244*)
- 245 Environmental Ethics
- 246 Bioethics (*same as Religious Studies 246*)



**Religious Studies**

244 Professional Responsibility (*same as Legal Studies 244; Philosophy 244*)  
246 Bioethics

**Russian**

221 Rebels, Dreamers and Fools The Outcast in 19th Century Russian Literature  
222 Heaven or Hell: Utopias and Dystopias in 20th Century Russian Literature

**University Honors**

157 Arts and Humanities Honors Seminar  
257 Special Topics in the Arts and Humanities

**DROP**

**Philosophy**

240 Ethics  
242 Ethical Theory and its Application

**Music History**

110 Introduction to Music in Western Culture  
115 Music in the United States  
120 History of Rock  
125 Jazz in American Culture  
290 Introduction to World Musics

**Social Sciences (SS)**

**ADD**

**African and African-American Studies**

201 Introduction to African-American Studies  
202 Introduction to African-American Studies

**Geography**

101-102 World Geography

**University Honors**

167 Social Science Honors Seminar  
267 Special Topics in the Social Sciences

**Cultures and Civilizations (CC)**

**ADD**

**Environmental and Soil Sciences**

120 Soils and Civilizations

**University Honors**

177 Cultures and Civilizations Honors Seminar  
277 Special Topics in Cultures and Civilizations

**DROP**

**Geography**

101-102 World Geography

**2005-2006**  
**THE UNIVERSITY OF TENNESSEE, KNOXVILLE**  
**GENERAL EDUCATION REQUIREMENT**

**Statement of Purpose:** General education provides the foundation for successful academic study, for lifelong learning, and for carrying out the duties of local, national, and global citizenship. By building basic skills in communication, analysis, and computation as well as by broadening students' historical and cultural perspectives, the general education curriculum helps students acquire an understanding of both self and society, and thus contributes to their personal enrichment while enrolled and after graduation.

The University of Tennessee's general education program has been designed to enable the student to move among colleges within the university or to move to another institution of higher learning. Although it will provide the students with the skills required by college study, those skills are specific neither to UT Knoxville nor to a particular major or career path.

**Outcomes:** The program is expected to produce the following outcomes for the students.

**Building Basic Skills:** Because the hallmark of the educated person is the ability to think independently, students must be trained to acquire, evaluate, and use information.

- Students must be able to **acquire** information by conducting independent research, both in a conventional library setting and through the use of the rapidly developing electronic technologies, including data bases and internet resources.
- Students must then learn to **evaluate** the reliability, accuracy, and logical soundness of that information. The students will be taught to apply evaluative techniques to statistical and rhetorical presentations in arts, humanities, natural sciences, and social sciences.
- Students must be trained to **use** the information that they have acquired. They must write clearly, speak convincingly, and solve problems using creative approaches.

**Developing Broadened Perspectives:** General education should help students develop habits of self-examination in the context of the individual's relationship to family, community, society, and world. To this end, general education should also help foster a commitment to respecting the diversity of personal and cultural values.

- Students should be able to explain their own values and beliefs, as well as to understand the histories and cultures behind those values. Students should also develop a commitment to lifelong learning so that they may continue to examine the relationships between their personal perspectives and the perspectives that arise from other cultures.
- Students should strengthen their sensitivity to cultural diversity by studying the histories and traditions of other cultures, both within and outside the United States; and by understanding the dynamic nature of a multicultural world through interdisciplinary perspectives or by learning other languages.

**These are the General Education requirements: (See Notes)**

**A. For Building Basic Skills**

**I. Communicating through Writing** (3 courses including English 101 and 102 plus an approved writing-intensive course): Good writing skills enable students to create and share ideas, investigate and describe values, and record discoveries—all skills that are necessary not only for professional success but also for personal fulfillment in a world where communication increasingly takes place through electronic media. Students must be able to identify areas for inquiry, locate relevant information, evaluate its usefulness and quality, and incorporate the information logically and ethically. They must be able to write correctly, and they must be aware that different audiences and purposes call for different rhetorical responses.

To satisfy this requirement, students take the first-year composition sequence and, upon completion of **English 101 and 102** or their equivalent (see Note 4), take one other course designated as "writing-intensive" (WC) in the undergraduate catalog. The writing-intensive courses can be within the student's major or an elective. In order to gain a "WC" designation, courses shall require formal and informal writing assignments that total 5,000 words.

**APPROVED COMMUNICATING THROUGH WRITING (WC) COURSES:****Agricultural and Extension Education**

440 Communication Techniques in Agriculture

**Architecture**

213 History and Theory of Contemporary Architecture

**Civil Engineering**

205 Professional Development I

**Electrical and Computer Engineering**

400 Senior Design

**English**

254 Themes in Literature

255 Public Writing

295 Business and Technical Writing

355 Rhetoric and Writing

360 Technical and Professional Writing

363 Writing Poetry

364 Writing Fiction

398 Junior-Senior Honors Seminar

455 Persuasive Writing

499 Senior Seminar

**Forestry**

321 Wildland Recreation

**Forestry, Wildlife and Fisheries**

312 Principles of Silviculture

**Hotel, Restaurant, and Tourism**

390 Professional Development (*same as Retail and Consumer Sciences 390*)

**Industrial Engineering**

350 Junior Seminar

**Information Sciences**

450 Writing About Science and Medicine (*same as Journalism and Electronic Media 450*)

**Journalism and Electronic Media**

200 Introduction to News Writing

201 Writing for Mass Media

414 Magazine and Feature Writing

444 Journalism as Literature

450 Writing About Science and Medicine (*same as Information Sciences 450*)

451 Environmental Writing

456 Science Writing as Literature

**Judaic Studies**

322 Medieval Philosophy (*same as Medieval Studies 322 and Philosophy 322*)

**Materials Science and Engineering**

405 Structural Characterization of Materials

**Medieval Studies**

322 Medieval Philosophy (*same as Judaic Studies 322 and Philosophy 322*)

**Music Education**

430 Music Methods for High School

**Musicology**

220 History of Music II  
330 Women in Music (*same as Women's Studies 330*)  
380 Music in World Cultures  
430 Symphonic Literature

**Nuclear Engineering**

304 Nuclear and Radiological Engineering Laboratory I  
403 Nuclear and Radiological Engineering Laboratory II

**Nursing**

403 Health Promotion and Maintenance in Childbearing Families

**Nutrition**

412 Food and Nutrition in the Community

**Philosophy**

241 Engineering Ethics  
243 Business Ethics  
246 Bioethics (*same as Religious Studies 246*)  
290 Social and Political Philosophy  
320 Ancient Western Philosophy  
322 Medieval Philosophy (*same as Medieval Studies 322 and Judaic Studies 322*)  
324 17th- and 18th-Century Philosophy  
326 19th- and 20th-Century Philosophy  
340 Ethics  
382 Philosophy of Feminism (*same as Women's Studies 382*)  
390 Philosophical Foundations of Democracy

**Plant Sciences**

448 Horticultural Internet Technology

**Religious Studies**

246 Bioethics (*same as Philosophy 246*)

**Retail and Consumer Sciences**

390 Professional Development (*same as Hotel, Restaurant, and Tourism 390*)

**Russian**

221 Rebels, Dreamers and Fools The Outcast in 19th-Century Russian Literature

**Social Work**

314 Human Behavior and the Social Environment

**Theatre**

300 Play Analysis

**University Honors**

257 Special Topics in Arts and Humanities  
267 Special Topics In Social Sciences  
277 Special Topics in Cultures and Civilizations

**Women's Studies**

330 Women in Music (*same as Musicology 330*)  
382 Philosophy of Feminism (*same as Philosophy 382*)

**II. Communicating Orally** (1 course): The ability to communicate one's ideas orally is as important as the ability to express them well in writing. The well-educated person should be able to speak in an informative and/or convincing manner to other individuals and to groups, both small and large. Being able to express one's thoughts clearly has always been a critical component of good citizenship. Students should be able to locate relevant information, evaluate its usefulness and quality, and incorporate the information logically and ethically in public address. (See Note 5.)

This requirement may be completed by

(1) Completion of **Communication Studies 210** or **240**

or

(2) Completion of a course with an "OC" designation.

**APPROVED COMMUNICATING ORALLY (OC) COURSES:**

**Aerospace Engineering**

410 Professional Development

**Animal Science**

360 Horse, Dairy, and Meat Animal Evaluation

**Biology**

157 Honors Experimental Biology

**Biomedical Engineering**

410 Professional Topics

**Biosystems Engineering**

401 Biosystems Engineering Design I

**Civil Engineering**

205 Professional Development I

**Electrical and Computer Engineering**

400 Senior Design

**Environmental and Soil Sciences**

301 Professional Development

**Legal Studies**

244 Professional Responsibility (*same as Philosophy 244; Religious Studies 244*)

**Mechanical Engineering**

410 Professional Development

**Nuclear Engineering**

400 Senior Seminar

**Nursing**

454 Professional Leadership Issues

**Philosophy**

244 Professional Responsibility (*same as Legal Studies 244; Religious Studies 244*)

**Religious Studies**

244 Professional Responsibility (*same as Legal Studies 244; Philosophy 244*)

**III. Quantitative Reasoning** (2 courses): In today's world, arguments and claims often rely for support on scientific studies and statistical evidence. Students should possess the mathematical and quantitative skills to

evaluate such evidence. Furthermore, students should possess the skills both to recognize the quantitative dimension of problems and to use mathematical reasoning to formulate and solve the problem. Finally, students need strong quantitative skills because they are indispensable in managing everyday-life situations.

This requirement may be completed by either of the following:

(1) taking two mathematics or statistics courses from the list below. (Preferably, these courses would be taken in one of the following pairings: Mathematics 113 and 115; Mathematics 123 and 125; Mathematics 141 and 142; Mathematics 147 and 148; Mathematics 151 and 152; Mathematics 125, 141 or 147 and Statistics 201 or 207; Mathematics 115 and 123 or 125 or 202.)

**Mathematics**

- 113 Mathematical Reasoning
- 115 Statistical Reasoning
- 117 Honors Mathematical Reasoning
- 123 Finite Mathematics
- 125 Basic Calculus
- 141–142 Calculus I, II
- 147–148 Honors: Calculus I, II
- 151–152 Mathematics for the Life Sciences I, II
- 202 Probability, Statistics, and Euclidean Geometry

**Statistics**

- 201 Introduction to Statistics
- 207 Honors: Introduction to Statistics

or

(2) taking one mathematics course from the list above and one course designated in the undergraduate catalog as having a quantitative component (QR). The course designated as having a quantitative component may be within the student's major or an elective.

**APPROVED QUANTITATIVE REASONING (QR) COURSES:**

**Architecture**

- 331 Architectural Structures I

**Computer Science**

- 100 Introduction to Computers and Computing
- 102 Introduction to Computer Science

**Interior Design**

- 460 Lighting for Interior Design

**Music Technology**

- 290 Sound Recording Techniques

**University Honors**

- 187 Quantitative Reasoning Honors Seminar

**B. For Developing Broadened Perspectives**

**Natural Sciences (2 courses):** As science and technology come to play an increasingly important role in contemporary life, it is essential for all educated persons to have a fundamental understanding of science and its methods. All students should be familiar with one or more scientific disciplines and the role of science in contemporary society. Such familiarity may be gained through acquisition of knowledge of a discipline's basic vocabulary, chief discoveries, and fundamental principles; exposure to a discipline's experimental techniques; and the ability to analyze issues with scientific dimensions.

This requirement is satisfied by taking two courses from the approved list. At least one of the courses must have a laboratory.

**APPROVED NATURAL SCIENCES (NS) COURSES:** († Non-lab courses)**Anthropology**

110 Human Origins†

**Astronomy**

151 A Journey through the Solar System†  
152 Stars, Galaxies, and Cosmology†  
161 A Journey through the Solar System with Laboratory  
162 Stars, Galaxies, and Cosmology with Laboratory  
217–218 Honors: Introductory Astronomy

**Biology**

101–102 Humankind in the Biotic World  
111-112 General Botany  
130 Biodiversity  
140 Organization and Function of the Cell  
157 Honors Experimental Biology†

**Chemistry**

100 Principles of Chemistry  
110 Introduction to Organic and Biochemistry  
120–130 General Chemistry  
128–138 Honors: General Chemistry

**Entomology and Plant Pathology**

201 Impact of Insects and Plant Diseases on Human Society†

**Forestry, Wildlife and Fisheries**

250 Conservation†

**Geography**

131–132 Geography of the Natural Environment

**Geology**

101 The Dynamic Earth  
102 Earth, Life and Time  
103 The Earth's Environment  
107 Honors: The Dynamic Earth  
108 Honors: Earth, Life and Time  
201 Biodiversity: Past, Present and Future†  
202 Earth As An Ecosystem: Modern Problems and Solutions†  
203 Geology of National Parks†

**Microbiology**

210 General Microbiology

**Nutrition**

100 Introductory Nutrition†

**Physics**

101–102 How Things Work†  
135–136 Introduction to Physics for Physical Science and Mathematics Majors  
137–138 Honors: Fundamentals of Physics for Physics Majors  
161 Elements of Physics for Architects and Interior Design Students†  
221–222 Elements of Physics  
231 Fundamentals of Physics: Electricity and Magnetism  
232 Fundamentals of Physics: Wave Motion, Optics, and Modern Physics

- II. Arts and Humanities** (2 courses): To live well in the present, one must have an acquaintance with the past, especially with the cultural achievements that are the distinctive hallmarks of all human societies. An appreciation of art, music, theater, literature, and philosophy will not only enrich the lives of students, but it will also help them understand their own and other's aspirations, both in a historical and a contemporary context. This requirement is satisfied by taking two courses from the list below.

**APPROVED ARTS AND HUMANITIES (AH) COURSES:**

**African and African-American Studies**

- 162 Art of Africa, Oceania, and Pre-Columbian America (*same as Art History 162*)
- 233 Major Black Writers (*same as English 233*)

**Architecture**

- 211 History and Theory of Architecture I
- 212 History and Theory of Architecture II

**Art History**

- 162 Art of Africa, Oceania, and Pre-Columbian America (*same as African and African-American Studies 162*)
- 167 Honors: Art of Africa, Oceania, and Pre-Columbian America
- 172 Western Art I
- 173 Western Art II
- 177 Honors: Western Art I
- 178 Honors: Western Art II
- 183 Asian Art
- 187 Honors: Asian Art

**Classics**

- 221 Early Greek Mythology
- 222 Classical Greek and Roman Mythology
- 232 Archaeology and Art of Ancient Greece and Rome
- 253 Greek and Roman Literature in English Translation

**English**

- 201 British Literature I: Beowulf through Johnson
- 202 British Literature II: Wordsworth to the Present
- 207 Honors: British Literature I
- 208 Honors: British Literature II
- 221 Literature of the Western World I: Ancient, Medieval, and Renaissance
- 222 Literature of the Western World II: Enlightenment, Romantic, and Modern
- 231 American Literature I: Colonial Era to the Civil War
- 232 American Literature II: Civil War to Present
- 233 Major Black Writers (*same as African and African-American Studies 233*)
- 237 Honors American Literature I: Colonial Era to the Civil War
- 238 Honors American Literature II: Civil War to Present
- 251 Introduction to Poetry
- 252 Introduction to Drama
- 253 Introduction to Fiction
- 254 Themes in Literature

**Legal Studies**

- 244 Professional Responsibility (*same as Philosophy 244; Religious Studies 244*)

**Musicology**

- 110 Introduction to Music in Western Culture
- 115 Music of the United States
- 120 History of Rock
- 125 Jazz in American Culture



- 210 History of Music I
- 220 History of Music II
- 290 Introduction to World Musics

**Philosophy**

- 110 The Human Condition: Values and Reality
- 111 The Human Condition: Knowledge and Reality
- 117 Honors Introduction to Philosophy
- 118 Honors Introduction to Philosophy
- 241 Engineering Ethics
- 242 Contemporary Moral Issues
- 243 Business Ethics
- 244 Professional Responsibility (*same as Legal Studies 244; Religious Studies 244*)
- 245 Environmental Ethics
- 246 Bioethics (*same as Religious Studies 246*)
- 290 Social and Political Philosophy

**Religious Studies**

- 244 Professional Responsibility (*same as Legal Studies 244; Philosophy 244*)
- 246 Bioethics (*same as Philosophy 246*)

**Russian**

- 221 Rebels, Dreamers and Fools The Outcast in 19th Century Russian Literature
- 222 Heaven or Hell: Utopias and Dystopias in 20th Century Russian Literature

**Theatre**

- 100 Introduction to Theatre

**University Honors**

- 157 Arts and Humanities Honors Seminar
- 257 Special Topics in the Arts and Humanities

**III. Social Sciences** (2 courses): The goal of the social sciences is to help us understand the way that we live, especially the relation between the individual and the group, sometimes from an historical but often from a contemporary perspective. Vital to the continued health and success of our society is an understanding of the complex individual, political, and social dynamics that make up the modern world. Students should not only have knowledge of the principal concerns of the social sciences, but they should also understand the methods by which social scientists collect and evaluate knowledge. This requirement is satisfied by taking two courses from the following list.

**APPROVED SOCIAL SCIENCES (SS) COURSES:****African and African-American Studies**

- 201 Introduction to African-American Studies
- 202 Introduction to African-American Studies

**Anthropology**

- 130 Cultural Anthropology

**Child and Family Studies**

- 210 Human Development
- 220 Marriage and Family: Roles and Relationships (*same as Women's Studies 230*)

**Economics**

- 201 Introductory Economics: A Survey Course
- 207 Honors: Introductory Economics

**Geography**

101-102 World Geography

**Political Science**

102 Introduction to Political Science

**Psychology**

110 General Psychology

117 Honors: General Psychology

**Sociology**

110 Social Justice and Social Change

117 Honors: Social Justice and Social Change

120 General Sociology

127 Honors: General Sociology

**University Honors**

167 Social Science Honors Seminar

267 Special Topics in the Social Sciences

**Women's Studies**230 Marriage and Family: Roles and Relationships (*same as Child and Family Studies 220*)

**IV. Cultures and Civilizations** (2 courses): Knowledge of foreign languages and cultures and their histories have long been required of educated people. Today technologies of travel and communication create global communities, and so increase the importance of this knowledge. While it is not possible to become expert in all cultures and civilizations, a perspective on which to build knowledge over a lifetime can be gained by study of foreign languages and the study of the cultures and histories of their speakers. This perspective improves the ability of students to function effectively in the global community of the twenty-first century by developing an appreciation of linguistic, historical, and cultural diversity.

This requirement is satisfied by either of the following:

(1) taking two courses from the following list

**or**

(2) taking a two-course sequence in a foreign language at the intermediate level.

**APPROVED CULTURES AND CIVILIZATIONS (CC) COURSES:****African and African-American Studies**

235–236 Introduction to African Studies

**Anthropology**

120 Prehistoric Archaeology

**Asian Studies**

101–102 Asian Civilization

**Classics**

201 Introduction to Classical Civilization

**Environmental and Soil Sciences**

120 Soils and Civilizations

**Global Studies**250 Introduction to Global Studies (*same as Sociology 250*)**History**

241–242 Development of Western Civilization

247–248 Honors: Development of Western Civilization

255–256 Introduction to Latin American Studies (*same as Latin American Studies 251–252*)

261–262 History of World Civilization

**Latin American Studies**

251–252 Introduction to Latin American Studies (*same as History 255–256*)

**Medieval Studies**

201–202 Medieval Civilization

**Religious Studies**

101 World Religions in History

102 The Comparison of World Religions

**Sociology**

250 Introduction to Global Studies (*same as Global Studies 250*)

**University Honors**

177 Cultures and Civilizations Honors Seminar

277 Special Topics in Cultures and Civilizations

**INTERMEDIATE FOREIGN LANGUAGE SEQUENCES:****Arabic**

221–222 Intermediate Modern Standard Arabic I, II (*same as Asian Studies 221–222*)

**Asian Languages**

231–232 Intermediate Chinese I, II (*same as Chinese 231–232*)

251–252 Intermediate Japanese I, II (*same as Japanese 251–252*)

**Asian Studies**

221–222 intermediate Modern Standard Arabic I, II (*same as Arabic 221–222*)

241–242 Intermediate Modern Hebrew I, II (*same as Hebrew 241–242*)

261–262 Intermediate Persian (*same as Persian 261–262*)

**Chinese**

231–232 Intermediate Chinese I, II (*same as Asian Languages 231–232*)

**Classics**

251 Intermediate Latin: Grammar Review and Readings  
and

252 Intermediate Latin: Vergil's Aeneid

261 Intermediate Greek: Grammar Review

and

264 Readings and Intermediate Readings in Greek

**French**

211–212 Intermediate French

217–218 Honors: Intermediate French

**German**

201–202 Intermediate German

**Hebrew**

241–242 Intermediate Modern Hebrew I, II (*same as Asian Studies 241–242*)

**Italian**

211–212 Intermediate Italian

**Japanese**

251–252 Intermediate Japanese I, II (*same as Asian Languages 251–252*)

**Persian**

261–262 Intermediate Persian (*same as Asian Studies 261–262*)

**Portuguese**

211–212 Intermediate Portuguese

**Russian**

201–202 Intermediate Russian

**Spanish**

211–212 Intermediate Spanish

217–218 Honors: Intermediate Spanish

## NOTES

- (1) Some courses on the various General Education course lists may have prerequisites. Students are responsible for meeting all course prerequisites.
- (2) A student's College/program may require specific General Education courses.
- (3) General Education courses must be taken for a letter grade (i.e., A-F) rather than Satisfactory/No Credit (unless this is the only way the course is offered).
- (4) See College of Arts and Sciences Basic Skills Requirement- Communicating through Writing in the Undergraduate Catalog for information on course equivalencies for English 101 and 102.
- (5) The Office of Disability Services (ODS) is committed to providing equal opportunities for students with disabilities at the University of Tennessee. Appropriate accommodations will be made to enable persons with disabilities to satisfy the General Education requirements. Students with documented disabilities should contact the Office of Disability Services for assistance with appropriate accommodations at (865) 974-6087 or ods@tennessee.edu.
- (6) Subcommittees of the Undergraduate Council General Education Committee are charged with management of the courses to be included on the General Education course lists for the Basic Skills and Broadened Perspectives areas. The most current list of General Education courses is posted at <http://web.utk.edu/~ugcouncil>.