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Graduate Council Minutes - February 2, 2006

Graduate Council

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THE UNIVERSITY OF TENNESSEE

Members Present

Mary Albrecht, David Anderson, Vincent Anfara, Ben Bates, Marianne Breinig, Ralph Brockett, Tom Burman, Charles Collins, Don Cox, Ann Fairhurst, James Foggin, Paul Frymier, James Gehlhar, Tom George, David Golden, Andrew Haddow, George Hoemann, Barbara Klinkhammer, Karen Levy, Anne Mayhew, Sandra McGuire, Sally McMillan, Matthew Murray, Stefanie Ohnesorg, John Orme, Mary E. Papke, Masood Parang, Linda Phillips, Lloyd Rinehart, Susan Smith, John Wodarski, Michael Zemel.

The Graduate Council meeting was called to order by Stefanie Ohnesorg, Chair, on Thursday, February 2, 2006, at 3:00 p.m. in the 8th Floor Conference Room of Hodges Library.

1. Minutes of the Preceding Meeting

The minutes of the November 17, 2005 meeting were approved.

2. Committee ReportsAcademic Policy Committee

Matthew Murray, Academic Policy Committee Chair, presented the report from the January 19, 2006 meeting.

An informational item was presented to the Council concerning sections of the Graduate Catalog that will be deleted. The following headings and content under those headings will be deleted from the 2006-2007 Graduate Catalog: Policy for the Administration of Graduate Assistantships; Dining Services; Housing; and Parking Services. A note will be added in the Graduate Catalog to replace the policy on the administration of graduate assistantships explaining that a brochure containing policy and best practices is available from the Office of Graduate Studies.

The Academic Policy Committee presented recommendations to Council for approval on the following policies:

- Minimum Score on the Internet-based TOEFL Score.

REVISE the policy statement in the 2005-2006 Graduate Catalog, page 24, first column, to include a minimum score for the new Internet-based test as follows:

English Certification

Any person whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL). A minimum score of 213 on the computer-based test, 550 on the paper test, or 80 on the Internet-based Test typically with a score of 20 on each of the sections of the test (reading, listening, writing, and

speaking) is required for admission consideration. Some programs require higher scores. . .

Effective Date: Fall 2006

Graduate Council approved the change.

- Requirement of Electronic Theses and Dissertations.

Theses and dissertations will be accepted for submission in electronic form only. Paper copies will no longer be accepted.

Effective Date: Fall 2007 with appropriate changes made to the *Guide for the Preparation of Theses and Dissertations* and to the *Graduate Catalog*.

Graduate Council approved the change.

- Change in Policy on Thesis/Dissertation Abstracts and Titles.

Thesis and dissertation abstracts should not exceed 350 words. Scientific or mathematical symbols will not be allowed in the title or abstract of theses or dissertations.

Effective Date: Fall 2006 with publication in the *Guide for the Preparation of Theses and Dissertations*.

Following extensive discussion, Council chair referred the change back to the Academic Policy Committee for further discussion

Credentials Committee

Michael Zemel, Credentials Committee Chair, presented the report from the January 12, 2006 meeting. Council approved the requests for faculty to be approved to direct doctoral dissertations as listed (Attachment 1).

In addition, the Committee recommended two changes to the Credentials Committee Bylaws:

- The Credentials Committee requested that a statement be added to the Committee Bylaws indicating that a simple majority of the committee present be required for recommendations to Council on approval to direct dissertations.

- The Committee asked that clarification be included in the Credentials Committee Bylaws to require that when requesting approval to direct dissertations for faculty falling in guidelines # 1 and # 5, department heads include faculty voting records that report votes for, against and abstaining.

Council voted to approve the changes.

Curriculum Committee

David Golden, Curriculum Committee Chair, presented the report from the January 19, 2006 meeting. Council approved the recommendations as presented (Attachment 2).

3. New Business

No new business.

4. Administrative Reports and Announcements

Graduate Dean's Report – Anne Mayhew

- The Spring 2006 Graduate Coordinators' Workshop is being held on Thursday, February 9, from 1:30 – 3:30 p.m. in the Shiloh Room of the University Center.
- The deadline for departments to submit fellowship applications for graduate students is Friday, March 10, 2006.
- Rose Ann Trantham, Director of Graduate and International Admissions, is retiring on February 17, 2006. A reception will be held on February 16, 2006 from 2:00 to 4:00 p.m. in the 8th Floor Board Room of Andy Holt Tower.

Mayhew led the Council in a round of applause for Trantham to recognize the contributions she had made in 32 years of service to UTK.

Graduate Student Senate (GSS) – Andrew Haddow

- GSS will attend the next Academic Affairs Committee meeting and request that the EEO/AA policy statement for the University of TN campus be amended and the TN Lottery be considered as a possible resource for funding avenues for graduate students; GSS will attend the next Student Affairs Committee and submit a proposal for a “centralized resource of funding avenues for graduate students” be developed in addition to the Graduate Studies Webpage.
- Previous items reported to Council were reviewed: the proposal for a UT pharmacy being established on campus based at the Student Health Clinic; the completion of the web-based travel fund application process, Summer 2006; and the closing of

- Kingston Apartment housing; a proposed graduate students' bill of rights being established and included in the *Hilltopics* publication.

Graduate Council Chair's Report – Stefanie Ohnesorg

- Nominating Committee.

Members of the Nominating Committee are: Marianne Breinig (Chair); Nan Gaylord; and David Golden. The committee will bring forward nominations for Graduate Council Chair for the March 9, 2006 meeting of Graduate Council.

- Request for Review of Terminal Degree Status on Master of Fine Arts Degree.

Beauvais Lyons, former Graduate Coordinator for the School of Art, requested that the Graduate Council pursue steps to regard the Master of Fine Arts degree as equal to other terminal degrees, such as doctoral degrees. Ohnesorg requested that the Credentials Committee review Lyons' request.

- Request for Review of Graduate Grading Scales.

A faculty member requested that the Council consider changing graduate grading scales to include minus grades. Discussion for a revision of grading scales will be forwarded to the Academic Policy Committee with a note that other programming implementation already planned for student records requires about two years of lead time for any new changes to be considered.

With no further business the meeting was adjourned at 4:20 p.m.

Respectfully Submitted,

Tammy L. Barnhart
Secretary to Graduate Council

**ATTACHMENT 1
APPROVAL TO DIRECT DOCTORAL DISSERTATIONS**

INITIAL Approval of Tenure-Track Faculty without Tenure (Probationary)

Baek, Seung Assistant Professor	Comparative & Experimental Medicine	Approved until tenure
Hallam, Rena Assistant Professor	Child & Family Studies	Approved until tenure
Onami, Thandi Assistant Professor	Microbiology	Approved until tenure
Strayhorn, Terrell Assistant Professor	Educational Psychology & Counseling	Approved until tenure

CONTINUING Approval of Faculty with Tenure

Goslee, David Professor	English	10 Years
Patton, Sharon Professor	Comparative & Experimental Medicine	10 Years

INITIAL/CONTINUING Approval of Non Tenure Faculty/Staff

Carroll, Roger Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years
Ichiki, Al Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years
Jouline, Igor UT/ORNL Faculty Affiliate	Microbiology	5 Years
Karlstad, Michael Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years

Kennel, Stephen Associate Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years
Matteson, Karla Associate Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years
Norby, Richard UT/ORNL Faculty Affiliate	Ecology & Evolutionary Biology	5 Years
Wetzel, Ron Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years
Wimalasena, Jay Professor, Graduate School of Medicine	Comparative & Experimental Medicine	5 Years

Attachment 2

- Information on Electronically-Mediated Courses
Administrative decision was made that Graduate Council will no longer review electronically-mediated courses.
- 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
- Comparative and Experimental Medicine
- College of Education, Health, and Human Sciences
- College of Engineering
- College of Law
- College of Nursing

NOTES:

▶ Identifies academic disciplines that are being added, dropped or moved to a different department.

◎ Identifies majors, concentrations, minors, and graduate certificate programs that are being added, dropped or moved to a different department.

COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

All changes effective Fall 2006

I. COURSE CHANGES**DEPARTMENT OF AGRICULTURAL ECONOMICS****(047) Agricultural Economics**

ADD

512 Advanced Agribusiness Finance (3) Financial and investment analysis tools and concepts and their application to decisions faced by agribusiness. Emphasis on financial analysis and planning principles, capital budgeting, debt structure and financing, options, present value concepts, and risk analysis.

Recommended Background: senior-level finance course.

552 Advanced Agribusiness Seminar (3) A capstone course for students in the Master of Science non-thesis agribusiness concentration. The course centers on discussion and analysis of real-world management case studies. Students are responsible for the development of a comprehensive written case study analyzing a real-world agribusiness management problem. Major writing and oral presentation emphasis.

Recommended Background: 2 completed semesters of the agricultural economics MS program.

REVISE TO REMOVE (DE) PREREQUISITES

412 Agricultural Finance (3)

420 International Agricultural Trade and Marketing (3)

430 Agricultural Policy (3)

442 Agribusiness Management (3)

450 Agricultural Industry Analysis and Forecasting (3)

470 Natural Resource Economics (3)

530 Agricultural Policy Analysis (3)

570 Advanced Natural Resource Economics (3)

REVISE TO REMOVE COMMENTS

520 Research Methods in Agricultural Economics (1)

REVISE TO REMOVE REGISTRATION PERMISSION

593 Special Topics in Agricultural Economics (1-3)

REVISE TO ADD REGISTRATION RESTRICTION

500 Thesis (1-15)

Registration Restriction: Master of Science – agricultural economics major.

REVISE TO REMOVE (DE) PREREQUISITES AND ADD RECOMMENDED BACKGROUND

505 Microeconomic Analysis (3)

Recommended Background: calculus and intermediate microeconomics courses.

524 Econometric Methods in Agricultural Economics (3)

Recommended Background: calculus and statistics courses.

525 Agribusiness Operations Research Methods (3)

Recommended Background: calculus and intermediate microeconomics courses.

670 Advanced Topics in Natural Resource Economics (3)

Recommended Background: advanced microeconomics course.

REVISE TO REMOVE (DE) PREREQUISITES AND ADD (RE) PREREQUISITES

542 Advanced Agribusiness Production Decisions (3)

(RE) Prerequisite(s): 505 or 503.

550 Advanced Agribusiness Marketing (3)

(RE) Prerequisite(s): 505 or 503.

REVISE CREDIT HOURS

595 Professional Internship (3)

AGRICULTURE AND NATURAL RESOURCES (INTERDEPARTMENTAL)

(088) Agriculture and Natural Resources

REVISE CREDIT HOURS AND REPETITION

491 International Experience in Agriculture and Natural Resources (1-12)

Repeatability: May be repeated. Maximum 12 hours.

DEPARTMENT OF ANIMAL SCIENCE

(113) Animal Science

REVISE TO REMOVE (DE) PREREQUISITES AND ADD RECOMMENDED BACKGROUND

571 Design and Analysis of Biological Research (3)

Recommended Background: 3 hours of statistics.

572 Least Squares Analysis (3)

Recommended Background: 6 hours of statistics.

652 Disorders of the Endocrine System (2)

Recommended Background: 3 hours of physiology.

DEPARTMENT OF BIOSYSTEMS ENGINEERING AND SOIL SCIENCE

(194) Biosystems Engineering Technology

REVISE TO ADD REGISTRATION RESTRICTION

500 Thesis (1-15)

Registration Restriction(s): Master of Science – biosystems engineering major.

REVISE TO REMOVE COMMENT AND ADD REGISTRATION RESTRICTION

514 CAD Applications to Biosystems Engineering Technology (3)

Registration Restriction(s): minimum student level – graduate.

REVISE TO REMOVE (DE) PREREQUISITE AND COMMENT; ADD REGISTRATION RESTRICTION

534 Production Monitoring and Automation (3)

Registration Restriction(s): minimum student level – graduate.

REVISE TITLE AND REMOVE REGISTRATION PERMISSION

506 Engineering Principles (3)

REVISE TO REMOVE (DE) PREREQUISITES AND ADD RECOMMENDED BACKGROUND

422 Food and Process Engineering Technology (3)

Recommended Background: general physics.

432 Agricultural Machinery and Tractors (3)

Recommended Background: 2 semesters of calculus.

442 Agricultural Waste Management and Pollution Control (3)

Recommended Background: 2 semesters of calculus.

452 Small Internal Combustion Engines (3)

Recommended Background: 2 semesters of calculus.

462 Agricultural Chemical Application Technology (3)

Recommended Background: 2 semesters of calculus.

REVISE TO REMOVE (DE) PREREQUISITES AND ADD (RE) PREREQUISITE

542 Simulation of Agricultural Systems (3)

(RE) Prerequisite(s): 506.

546 Automation Devices and Applications (3)

(RE) Prerequisite(s): 506.

REVISE TO REMOVE (DE) PREREQUISITE, ADD RECOMMENDED BACKGROUND AND REGISTRATION RESTRICTION

574 Environmental Instrumentation and Monitoring (3)

(RE) Prerequisite(s): 506.

Recommended Background: hydrology.

Registration Restriction(s): minimum student level – graduate.

(196) Biosystems Engineering

REVISE TO REMOVE (DE) PREREQUISITES AND (DE) COREQUISITES AND ADD RECOMMENDED BACKGROUND

411 Mechanical Systems Engineering (3)

Recommended Background: rigid-body dynamics, mechanics of materials.

REVISE TO CHANGE PREREQUISITE TO RECOMMENDED BACKGROUND

416 Hydrologic and Water Quality Engineering (3)

Recommended Background: hydraulics or fluid mechanics.

451 Electronic Systems (4)

Recommended background: electrical circuits.

REVISE TO REMOVE (DE) PREREQUISITE

431 Bioprocess Engineering (3)

REVISE TO REMOVE (DE) PREREQUISITE AND ADD (RE) PREREQUISITE

619 Mathematical Modeling for Engineers (3)

(RE) Prerequisite(s): 519.

636 Geospatial Methods for Environmental Research (3)

(RE) Prerequisite(s): 555.

REVISE TO ADD REGISTRATION RESTRICTION

500 Thesis (1-15)

Registration Restriction(s): Master of Science – biosystems engineering major.

600 Doctoral Research and Dissertation (3-15)

Registration Restriction(s): Doctor of Philosophy – biosystems engineering major.

(345) Environmental and Soil Sciences

DROP

481 Capstone in Environmental and Soil Sciences (3)

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

434 Environmental Soil Chemistry (3)

Recommended Background: organic chemistry.

442 Soil Genesis and Classification (3)

Recommended Background: general soils.

444 Transport Processes in Soil (3)

Recommended Background: general soils and physics.

462 Environmental Climatology (3)

Recommended Background: computer proficiency.

511 Soil-Plant Relationships (3)

Recommended Background: plant physiology.

512 Pedology (3)

Recommended Background: soil genesis and classification.

513 Advanced Soil Chemistry (3)

Recommended Background: soil chemistry.

514 Environmental Soil Physics (3)

Recommended Background: soil physics.

516 Soil Biology and Biochemistry (3)

Recommended Background: general soils.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD (RE) PREREQUISITE

613 Advanced Topics in Soil Chemistry and Fertility (2)

(RE) Prerequisite(s): 513.

614 Advanced Topics in Soil Biology and Biochemistry (2)

(RE) Prerequisite(s): 514.

REVISE TO ADD REGISTRATION RESTRICTION

500 Thesis (1-15)

Registration Restriction(s): Master of Science – environmental and soil sciences major.

600 Doctoral Research and Dissertation (3-15)

Registration Restriction(s): Doctor of Philosophy – plants, soils, and insects major.

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

REVISE TO ADD REGISTRATION RESTRICTION

500 Thesis (1-15)

Registration Restriction(s): Master of Science – entomology and plant pathology major.

600 Doctoral Research and Dissertation

Registration Restriction(s): Doctor of Philosophy – plant, soils, and insects major.

REVISE TO ADD REGISTRATION RESTRICTION AND REMOVE COMMENT

550 Molecular Epidemiology and Mycology (3)

Registration Restriction(s): minimum student level – senior

REVISE TO REMOVE (DE) PREREQUISITES AND ADD RECOMMENDED BACKGROUND

520 Plant Parasitic Nematodes (2)

Recommended Background: 8 hours of biology.

REVISE TO REMOVE (DE) PREREQUISITES, ADD RECOMMENDED BACKGROUND, AND REMOVE REGISTRATION PERMISSION

544 Protein Gel Electrophoresis (1)

Recommended Background: 8 hours of biology or botany and 8 hours of chemistry.

545 Plant Microtechnique (1)

Recommended Background: 8 hours of biology or botany and 8 hours of chemistry.

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY**(390) Food Science and Technology**

ADD

541 Food Engineering (3) Transport processes in food engineering; unit operations; thermal and non-thermal processing of foods; food separations; processing and physicochemical properties of foods; calculations, design practices, and equipment used in food processing operations.

Contact Hour Distribution: 2 hours and one 2-hour lab.

Recommended Background: basic calculus and physics.

615 Food Biopolymers (3) Study of biopolymers obtained from food and used in food and other industries. Chemical, physical and mechanical characterizations, chemical and physical modifications, and applications as functional ingredients, carriers, and packaging materials.

Contact Hour Distribution: 3 hours lecture.

Recommended Background: organic chemistry and food chemistry.

ADD FOR GRADUATE CREDIT

415 Food Analysis (4) Principles, methods and techniques for qualitative and quantitative analyses of composition and physical, chemical, and biological properties of food and food ingredients.

Contact Hour Distribution: 3 hours and one 2-hour lab.

(DE) Prerequisite(s): Chemistry 110 or 350.

419 Food Chemistry Lab (1) Interaction of water, proteins, lipids, carbohydrates, minerals, enzymes, vitamins, and additives in foods and methods of evaluation of chemical properties of foods.

Contact Hour Distribution: one 2-hour lab.

(RE) Corequisite(s): 410.

461 Fresh Meats (3) Basic principles in the conversion of muscle to meat and the factors that contribute to the utilization and marketing of quality fresh meat products.

462 Manufactured Meat Technology (2) Basic principles of manufacturing valued added meat products.

Contact Hour Distribution: 1 hour lecture and 1 hour lab.

DROP

460 Meat Science (3)

469 Meat Science Lab (1)

512 Flavor of Foods (2)

Current Course Food Science and Technology (390)	Fall 2006 Food Science and Technology (390)
460 Meat Science (3)	461 Fresh Meats (3)
469 Meat Science Lab (1)	462 Manufactured Meat Technology (2)
410 Food Chemistry (4)	410 Food Chemistry (3) and 419 Food Chemistry Lab (1)

REVISE CREDIT HOURS AND CONTACT HOUR DISTRIBUTION

410 Food Chemistry (3)

Contact Hour Distribution: 3 hours lecture.

REVISE REPETITION

503 Problems in Lieu of Thesis (2-3)

Repeatability: May be repeated. Maximum 9 hours.

DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES**(396) Forestry**

DROP

421 Forest and Wildland Resource Economics (3)

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

580 Advanced Silviculture (3)

Recommended Background: silviculture course.

585 Advanced Forest Biometry (3)

Recommended Background: forest inventory and sampling coursework.

630 Forest Growth and Development (3)

Recommended Background: undergraduate course in silviculture.

REVISE TO REMOVE (DE) PREREQUISITES

423 Wildland Recreation Planning and Management (3)

(398) Forestry, Wildlife and Fisheries

REVISE TO REMOVE (DE) PREREQUISITES AND ADD RECOMMENDED BACKGROUND

410 Wildlife Habitat Evaluation and Management (3)

Recommended Background: undergraduate course in wildlife and fisheries.

535 Environmental Impacts to Natural Ecosystems (3)

Recommended Background: undergraduate course in natural resource management.

(993) Wildlife and Fisheries Science

ADD

536 Advanced Wetland Ecology (3) A comprehensive examination of wetland delineation and classification, wetland communities and hydrogeomorphic processes, wetland values, human impacts on wetlands, and the management and conservation of wetland communities.

Comments: Day or overnight field trips may be required.

REVISE TO REMOVE (DE) PREREQUISITES AND ADD RECOMMENDED BACKGROUND

440 Wildlife Techniques (3)

Recommended Background: undergraduate course in wildlife and fisheries.

442 Fisheries Techniques (3)

Recommended Background: undergraduate course in wildlife and fisheries.

443 Fisheries Science (3)

Recommended Background: undergraduate course in wildlife and fisheries.

444 Ecology and Management of Wild Mammals (3)

Recommended Background: undergraduate course in wildlife and fisheries.

445 Ecology and Management of Wild Birds (3)

Recommended Background: undergraduate course in wildlife and fisheries.

530 Wildlife Diseases (2)

Recommended Background: upper-division undergraduate course in wildlife sciences.

546 Advanced Habitat Analysis (2)

Recommended Background: undergraduate course in GIS.

556 Recirculating Aquaculture (3)

Recommended Background: upper-division undergraduate course in fisheries science.

REVISE TO REMOVE (DE) PREREQUISITES AND ADD (RE) PREREQUISITE

545 Advanced Population Analysis (2)

(RE) Prerequisite(s): Animal Science 571 or Statistics 538.

DEPARTMENT OF PLANT SCIENCES**(791) Plant Sciences**

DROP

432 Weed Management (3)

REVISE HOURS

410 Nursery Management and Production (3)**II. PROGRAM CHANGES****DEPARTMENT OF ANIMAL SCIENCE****☉ DROP THE FOLLOWING CONCENTRATIONS FOR THE ANIMAL SCIENCE MAJOR (MS)**

Animal Genetics
Animal Health and Well-Being
Animal Management
Animal Nutrition
Animal Physiology

On page 50 of the 2005-2006 Graduate Catalog, drop concentrations and revise to

The Department of Animal Science offers graduate programs leading to the Master of Science and Doctor of Philosophy with a major in animal science. Areas of emphasis are animal genetics, nutrition, health and well-being, physiology, and reproduction with orientation towards agriculturally important animal species and research models. For specific information, contact the department head.

All first- and second-year Master of Science students are required to enroll in 596 each spring term and all first- and second-year Doctor of Philosophy students are required to enroll in 696 each spring term.

REVISE ANIMAL SCIENCE MAJOR (MS)

On page 50 of the 2005-2006 Graduate Catalog, revise to

The program requires the writing of a thesis based on original research; the completion of a minimum of 24 hours of graduate coursework, of which at least 14 hours must be taken in courses numbered at or above the 500 level; and 6 hours of thesis. Included in the course requirement are 1 hour of Agriculture and Natural Resources 512 and a minimum of 3 hours in statistics. Statistics courses must be chosen from the 500- or 600-level courses approved for use in the Intercollegiate Graduate Statistical Program (IGSP). The remainder of coursework will be selected jointly by the student and the major professor depending on the student's area of emphasis and professional objectives.

REVISE ANIMAL SCIENCE MAJOR (PhD)

On page 50 of the 2005-2006 Graduate Catalog, revise to

The doctoral program requires a minimum of 48 hours of coursework beyond the Bachelor of Science and a minimum of 24 hours of doctoral research and dissertation. The following are required.

- A minimum of 16 hours in related fields outside of animal science.
- At least 24 hours credit at the 500- and 600-level, exclusive of doctoral research and dissertation, of which a minimum of 6 hours must be at the 600-level.
- A minimum of 1 hour of Agriculture and Natural Resources 512 in addition to that required at the Master of Science level.
- A minimum of 6 hours of 500- or 600-level statistics courses approved for the IGSP.

A minimum of five faculty members will constitute the student's advisory committee, of which at least one must be outside animal science. The major professor will be the chairperson. The student and major professor select the program of study depending on the student's area of emphasis and professional goal. The advisory committee approves the program of study and dissertation research proposal, and conducts the comprehensive written and oral examination and final dissertation defense examination.

DEPARTMENT OF FORESTRY, WILDLIFE AND FISHERIES

REVISE NATURAL RESOURCES MAJOR (PhD)

On page 58, column 1 in the 2005-2006 Graduate Catalog, revise to

Professional Development (seven credits)

On page 58, column 1 in the 2005-2006 Graduate Catalog, revise to

Professional Communication – All students will be required to complete Forestry, Wildlife and Fisheries 612 two (2) times as part of their program of study. Part of the seminar requirement will consist of assisting in the development and conduct of Forestry 512 and Wildlife and Fisheries 512.

DEPARTMENT OF PLANT SCIENCES

REVISE PLANT SCIENCES MAJOR (MS)

On page 59 of the 2005-2006 Graduate catalog, revise second bullet of Requirements to

- Successful completion of 12 hours of course work in the major at the graduate level (400 or above), exclusive of Plant Sciences 510, 502, and 503. Two of these hours must be Plant Sciences 504. Six of these hours may be satisfied by Biochemistry and Cellular and Molecular Biology 404, 522, 523, Animal Science 571, Environmental and Soil Sciences 434, 444, 516, Ecology and Evolutionary Biology 414, 433, 560, Information Sciences 560, Art 481, or Geography 439.

COLLEGE OF ARCHITECTURE AND DESIGN

Effective Fall 2006

(133) Architecture

ADD

589 Urban Site Planning Workshop (4) Explores ideas, vocabulary, conventions, and technical skills essential to a critical understanding of how design and planning operate within the various scales of urban and ecological context. Examines both underlying terrain elements (landform, vegetation, water, climate) and human site interventions (urban infrastructure, buildings, and landscape). Strategies and analysis techniques for reading, mapping, and analyzing urban sites are introduced, as are issues, language, and principles of site design in urbanized landscapes.

Comment(s): Open to all majors.

Registration Permission: consent of instructor.

COLLEGE OF ARTS AND SCIENCES

All changes effective fall 2006

PART I: COURSE CHANGES**DEPARTMENT OF ANTHROPOLOGY****(122) Anthropology**

ADD

415 Environmental Anthropology (3) Overview of theoretical and methodological approaches to the study of human / environmental interactions. Impacts of environmental change on society and culture; human impacts on environmental change.

(DE) Prerequisite(s): 130.

Registration Permission: consent of instructor.

432 Anthropology of Warfare and Violence (3) Origins and tactics of warfare; overview of cultural foundations of warfare and structural violence; and effects on communities, social institutions, environments, and social organization.

(DE) Prerequisite(s): 130.

Registration Permission: consent of instructor.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

REQUEST APPROVAL FOR VARIABLE TITLE:

585 Laboratory Studies in Biological Anthropology (3)**611 Advanced Seminar in Cultural Anthropology (3)****SCHOOL OF ART****(140) Art**

REPEATABILITY CLARIFICATION

507 Professional Practices: Teaching Internship (1)

Repeatability: May be repeated. Maximum 4 hours.

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

591 Foreign Study (1-6)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-6)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

(135) Art Ceramics

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

(136) Art Design/Graphic

ADD

400 Typography (3) Principles of typography as well as classical and contemporary type forms as vehicles for communication. An intensive introduction to the fundamentals of type, from individual letterforms to large bodies of textual information. Attention to formal, technological, rhetorical and historical issues.

(DE) Prerequisite(s): Art 295, Art Design/Graphic 251.

410 Advanced Typographic Investigation (3) Expands on principles introduced in Typography 400. Projects will include work in reflective as well as electronic environments with an emphasis on personal exploration.

(DE) Prerequisite(s): Art Design/Graphic 400.

425 Illustration (3) Develops skills and critical analysis for effective visual communication. Projects will explore the relationship between image and meaning. Students will explore a variety of media as they develop a personal visual vocabulary.

Repeatability: May be repeated. Maximum 6 hours.

(DE) Prerequisite(s): Art 295, Art Design/Graphic 251

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

(137) Art Drawing

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

(134) Art Media Arts

REVISE CREDIT HOURS

435 Cinematography as Art (4)**436 Video Art (4)**

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

(138) Art Painting

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

(132) Art Printmaking

REVISE REPEATABILITY

561 Printmaking I (2-6)

Repeatability: Not repeatable. May be taken once for 2-6 hours.

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-6)

Repeatability: May be repeated. Maximum 15 hours.

(143) Art Sculpture

REVISE CREDIT HOURS

441 Advanced Sculpture (3)

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-4)

Repeatability: May be repeated. Maximum 15 hours.

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

ADD

525 Counseling and Communication Disorders. (3) Issues related to the role of counseling in clinical practice in speech pathology and audiology. Includes discussion of counseling needs and approaches, including multicultural issues.

REVISE DESCRIPTION

540 Structural Speech Disorders (3) Etiology, diagnosis, and clinical management of craniofacial and resonance disorders.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD REGISTRATION PERMISSION

601 Experimental Phonetics (3)

Registration Permission: consent of instructor.

REVISE TO ADD REPEATABILITY

455 Problems in Speech Pathology (1-3)

Repeatability: May be repeated. Maximum 6 hours.

533 Advanced Clinical Practice in Speech-Language Pathology (1-4)

Repeatability: May be repeated. Maximum 15 hours.

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 30 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 30 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

REVISE REPEATABILITY

534 Advanced Clinical Practice in Speech-Language Pathology (1-4)

Repeatability: May be repeated. Maximum 15 hours.

535 Advanced Clinical Practice in Speech-Language Pathology: Off-Campus Sites (1-4)

Repeatability: May be repeated. Maximum 15 hours.

538 Advanced Clinical Practice in Speech-Language Pathology: Public Schools (1-4)

Repeatability: May be repeated. Maximum 15 hours.

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

ADD

559 Biophysical Crystallography (3): Theories and practices of X-ray diffraction, neutron diffraction and neutron scattering to elucidate the structure of nucleic acids, proteins, nucleosomes, ribosomes and viruses. Application of 3-D structures in designing drugs against AIDS, cancer, cardiac disease and neurodegenerative disorders.

Recommended Background: 401 or two 300-level chemistry courses or Physics 240.

Registration Permission: consent of instructor.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

601 Departmental Seminar (1)

Repeatability: May be repeated. Maximum 15 hours.

603 Graduate Research Colloquium (1)

Repeatability: May be repeated. Maximum 15 hours.

REVISE TO REMOVE REPEATABILITY

550 Advanced Concepts in Neurobiology/Physiology (3)

REPEATABILITY CLARIFICATION

560 Advanced Concepts in Structural Biology/Biochemistry (3)

Repeatability: May be repeated. Maximum 12 hours.

570 Advanced Concepts in Cellular/Molecular Biology (3)

Repeatability: May be repeated. Maximum 12 hours.

580 Advanced Concepts in Genetics/Developmental Biology (3)

Repeatability: May be repeated. Maximum 12 hours.

DEPARTMENT OF CHEMISTRY**(235) Chemistry**

REVISE TITLE

473 Physical Chemistry I (3)**479 Physical Chemistry Laboratory I (2)****483 Physical Chemistry II (3)****489 Physical Chemistry Laboratory II (2)**

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

590 Polymer Chemistry (3)

Recommended Background: 2 semesters of organic chemistry and 2 semesters of physical chemistry.

DEPARTMENT OF CLASSICS**(257) Classics**

ADD

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

REPEATABILITY CLARIFICATION

565 Graduate Seminar in Ancient Mediterranean Civilization (3)

Repeatability: May be repeated. Maximum 15 hours.

REQUEST APPROVAL FOR VARIABLE TITLE

562 Special Topics in Mediterranean Archaeology (3)**565 Graduate Seminar in Ancient Mediterranean Civilization (3)****DEPARTMENT OF COMPUTER SCIENCE****(266) Computer Science**

REVISE TO DELETE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

541 Database Management Systems (3)

Recommended Background: coursework in discrete structures.

560 Software Systems (3)

Recommended Background: coursework in systems programming.

REPEATABILITY CLARIFICATION

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

594 Special Topics in Computer Science (1-3)

Repeatability: May be repeated. Maximum 15 hours.

620 Advanced Topics in Intelligent Systems (1-6)

Repeatability: May be repeated. Maximum 15 hours.

650 Advanced Topics in Pattern/Image Analysis (1-6)

Repeatability: May be repeated. Maximum 15 hours.

660 Advanced Topics in Software Systems (1-6)

Repeatability: May be repeated. Maximum 15 hours.

680 Advanced Topics in Theory and Foundations (1-6)

Repeatability: May be repeated. Maximum 15 hours.

690 Advanced Topics in Computer Science (1-6)

Repeatability: May be repeated. Maximum 15 hours.

REQUEST APPROVAL FOR VARIABLE TITLE AND CLARIFY REPEATABILITY

670 Advanced Topics in Scientific Computing (1-6)

Repeatability: May be repeated. Maximum 15 hours.

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

DROP

475 Physical and Chemical Systems of the Earth (3)**544 Paleopedology (3)**

REVISE TO REMOVE (DE) PREREQUISITE, ADD RECOMMENDED BACKGROUND AND CONTACT HOUR DISTRIBUTION

401 Quantitative Methods in Geology (3)

Contact Hour Distribution: 3 hours lecture.

Recommended Background: introductory geology and calculus, or consent of instructor.

REVISE TO DELETE (DE) PREREQUISITE, ADD RECOMMENDED BACKGROUND AND REVISE CONTACT HOUR DISTRIBUTION

410 Mineral Science (3)

Contact Hour Distribution: 2 lectures and one 2-hour lab.

Recommended Background: mineralogy or consent of instructor.

REVISE TO DELETE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

411 Optical Mineralogy (2)

Recommended Background: mineralogy or consent of instructor.

412 Elements of X-ray Diffraction (2)

Recommended Background: mineralogy or consent of instructor.

440 Field Geology (5)

Recommended Background: at least 16 hours of mineralogy, petrology, paleontology, sedimentology and stratigraphy, or structural geology and geophysics.

450 Process Geomorphology (3)

Recommended Background: introductory geology or consent of instructor.

455 Basic Environmental Geology (3)

Recommended Background: introductory geology or consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE AND REVISE RECOMMENDED BACKGROUND

460 Principles of Geochemistry (4)

Recommended Background: general chemistry, calculus, mineralogy and petrology or consent of instructor.

REVISE DESCRIPTION, ADD CONTACT HOUR DISTRIBUTION AND RECOMMENDED BACKGROUND, REMOVE (DE) PREREQUISITES

470 Applied Geophysics (3) Basic principles of data collection, processing, and analysis for several common geophysical techniques will be presented through lectures, computer assignments (labs), and field work. Passive (earthquake) and active (reflection and refraction) seismology, potential fields (gravity and magnetics), heat flow, electromagnetics (including ground penetrating radar), and electrical techniques.

Contact Hour Distribution: One 3-hour meeting per week consisting of lecture, computer lab, or field work. One optional day or weekend field trip will be scheduled.

Recommended Background: calculus, physics, petrology, sedimentology and stratigraphy, and structural geology or consent of instructor.

REVISE CONTACT HOUR DISTRIBUTION, RECOMMENDED BACKGROUND AND REMOVE (DE) PREREQUISITE

480 Principles of Economic Geology (4)

Contact Hour Distribution: 3 hours lecture and one 2-hour lab.

Recommended Background: mineralogy, petrology and geochemistry or consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

485 Principles of Hydrogeology (3)

Recommended Background: calculus, physics and introductory geology or consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE(S) OR COREQUISITE(S), ADD (DE) COREQUISITES AND REGISTRATION PERMISSION

486 Hydrogeology Laboratory (1)

(DE) Corequisite(s): Geology 485 and Environmental Engineering 535.

Registration Permission: consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

501 Fractal Models in Earth Sciences (3)

Recommended Background: 6-8 hours of coursework in earth sciences, calculus, or consent of instructor.

505 Structure of the Southern and Central Appalachians (2)

Recommended Background: structural geology or consent of instructor.

REVISE CONTACT HOUR DISTRIBUTION, REMOVE (DE) PREREQUISITE, ADD RECOMMENDED BACKGROUND

510 Clay Mineralogy (3)

Contact Hour Distribution: 2 hour lectures and one 2-hour lab.

Recommended Background: mineralogy and geochemical analysis or consent of instructor.

530 Petrogenesis of Crystalline Rocks (4)

Contact Hour Distribution: 3 hour lectures and one 2-hour lab.

Recommended Background: advanced mineralogy or consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE, ADD CONTACT HOUR DISTRIBUTION AND RECOMMENDED BACKGROUND

539 Geologic Applications of Remote Sensing (3)

Contact Hour Distribution: 2 hours lecture and one 2-hour lab.

Recommended Background: mineralogy, calculus, and physics or consent of instructor.

REVISE TITLE, DESCRIPTION, AND CONTACT HOUR DISTRIBUTION; REMOVE (DE) PREREQUISITE; ADD RECOMMENDED BACKGROUND

545 Siliciclastic Petrogenesis (4) Origin and evolution of siliciclastic sediments from a geochemical and petrographic perspective. Emphasis on a quantitative treatment of major elements, trace elements and rare earth elements to extract provenance, weathering, and diagenesis information.

Contact Hour Distribution: Two lectures per week, one 2-hour lab.

Recommended Background: mineralogy, optical mineralogy and sedimentology and stratigraphy or consent of instructor.

REVISE TITLE, DESCRIPTION, AND CONTACT HOUR DISTRIBUTION; ADD RECOMMENDED BACKGROUND

546 Carbonate Sedimentology and Geochemistry (4) Environments of deposition and diagenesis of carbonate rocks; introduction to carbonate chemistry, carbonate equilibria, and the precipitation of carbonate minerals; abiotic vs. biotic control of carbonate precipitation; secular change in carbonate mineralogy and fabric through geology time. Petrographic observation, synthesis of petrographic and geochemical datasets, critical analysis of scientific literature, and oral/written presentation.

Contact Hour Distribution: three lecture/discussion hours per week and one 2-hour lab.

Recommended Background: general chemistry, mineralogy and sedimentology and stratigraphy or consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

561 Organic Geochemistry (3)

Recommended Background: general chemistry or consent of instructor.

563 Stable Isotope Geochemistry (3)

Recommended Background: general chemistry or consent of instructor.

REVISE RECOMMENDED BACKGROUND AND REMOVE (DE) PREREQUISITE

565 Chemical Petrology (3)

Recommended Background: calculus, general chemistry, and physical chemistry or consent of instructor.

REVISE CONTACT HOUR DISTRIBUTION, REMOVE (DE) PREREQUISITE, AND ADD RECOMMENDED BACKGROUND

568 Geochemical Analysis (3)

Contact Hour Distribution: 2 hours lecture and one 2-hour lab.

Recommended Background: general chemistry and mineralogy or consent of instructor.

570 Advanced Structural Geology (4)

Contact Hour Distribution: 3 hours lecture and 1 lab or seminar.

Recommended Background: structural geology or consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

572 Fracture Analysis (3)

Recommended Background: structural geology or consent of instructor.

REVISE CONTACT HOUR DISTRIBUTION; REMOVE (DE) PREREQUISITE; ADD RECOMMENDED BACKGROUND AND REGISTRATION PERMISSION

575 Tectonics (4)

Contact Hour Distribution: 3 hours lecture and 1 seminar.

Recommended Background: structural geology course.

Registration Permission: consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE; ADD RECOMMENDED BACKGROUND AND REGISTRATION PERMISSION

576 Reflection Seismology (3)

Recommended Background: geophysics.

Registration Permission: consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

585 Contaminant Hydrogeology (3)

Recommended Background: calculus, physics, hydrogeology and geochemistry or aquatic chemistry.

586 Field and Laboratory Methods in Hydrogeology (3)

Recommended Background: calculus, physics, and hydrogeology.

REVISE DESCRIPTION AND REPEATABILITY

590 Special Problems in Geology (1-3) Student- or instructor-initiated course offered at the convenience of the department, with focus on specialized topics in the geological sciences.

Repeatability: May be repeated. Maximum 12 hours.

REVISE CREDIT HOURS; ADD REPEATABILITY; CREDIT RESTRICTION, AND REGISTRATION PERMISSION

591 Foreign Study (1-12)

Repeatability: May be repeated. Maximum 12 hours.

Credit Restriction: Only 3 hours may be applied to the geology major.

Registration Permission: consent of instructor.

592 Off-Campus Study (1-12)

Repeatability: May be repeated. Maximum 12 hours.

Credit Restriction: Only 3 hours may be applied to the geology major.

Registration Permission: consent of instructor.

REVISE CREDIT HOURS AND ADD DESCRIPTION; REPEATABILITY, CREDIT RESTRICTION, AND REGISTRATION PERMISSION

593 Independent Study (1-12) Student or instructor initiated independent study.

Repeatability: May be repeated. Maximum 12 hours.

Credit Restriction: Only 3 hours may be applied to completion of graduate coursework requirements.

Registration Permission: consent of instructor.

REVISE DESCRIPTION AND ADD COMMENT

595 Selected Topics in Geology (1) Presentation of research by faculty and visiting scientists.

Comment(s): Registration required each spring and fall semester for resident full-time graduate students, except when registered for 596.

596 Geology Colloquium (1) Preparation and oral presentation of scientific material. Grade based on content, preparation, presentation, and instructor critique in departmental seminar.

Comment(s): Registration required once during residence for each graduate student.

REVISE REPEATABILITY AND ADD REGISTRATION PERMISSION

630 Seminar in Petrology (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

640 Seminar in Sedimentary Geology (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

650 Seminar in Geomorphology and Quaternary Geology (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

660 Seminar in Geochemistry (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

670 Seminar in Structural Geology (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

REVISE TO REMOVE (DE) PREREQUISITE; ADD REPEATABILITY AND REGISTRATION PERMISSION

675 Seminar in Geophysics (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

REVISE REPEATABILITY AND ADD REGISTRATION PERMISSION

685 Seminar in Hydrogeology (3)

Repeatability: May be repeated. Maximum 9 hours.

Registration Permission: consent of instructor.

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

REVISE TO CLARIFY REPEATABILITY

411 Minicourse in Ecology and Evolutionary Biology (2)

Repeatability: May be repeated. Maximum 4 hours.

412 Minicourse in Ecology and Evolutionary Biology (2)

Repeatability: May be repeated. Maximum 4 hours.

509 Foundations: Readings in Ecology (1-2)

Repeatability: Not repeatable. May be taken once for 1-2 hours.

511 Foundations: Readings in Evolution (1-2)

Repeatability: Not repeatable. May be taken once for 1-2 hours.

515 Foundations: Readings in Environmental Toxicology (1-2)

Repeatability: Not repeatable. May be taken once for 1-2 hours.

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF ENGLISH**(339) English**

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: Not repeatable. May be taken once for 1-15 hours.

592 Off-Campus Study (1-15)

Repeatability: Not repeatable. May be taken once for 1-15 hours..

REVISE TO ADD COMMENT AND CLARIFY REPEATABILITY

593 Independent Study (1-15)

Repeatability: May be repeated once.

Comments: May be taken once in the MA program and once in the PhD program.

DEPARTMENT OF GEOGRAPHY**(415) Geography**

ADD

507 Research in Human Geography (3) Introduction to human geography's questions, methods, and norms.

REVISE PRIMARY COURSE TO DROP CROSS LISTING

441 Urban Geography of the United States (3) *(Same as Urban Studies 441.)*

442 Urban Social Geography (3) *(Same as Urban Studies 442.)*

REVISE (DE) PREREQUISITE

413 Remote Sensing: Types and Applications (4)

(DE) Prerequisite(s): 132.

REVISE DESCRIPTION, (DE) PREREQUISITE AND CREDIT HOURS; ADD CONTACT HOUR DISTRIBUTION:

415 Quantitative Methods in Geography (4) Geographic application of statistical techniques, point pattern analysis, spatial analyses, and correlation and regression techniques.

Contact Hour Distribution: 3 hours lecture and 2 hours lab per week.

(DE) Prerequisite(s): Mathematics 115 or Statistics 201.

REVISE (DE) PREREQUISITE

432 Dendrochronology (4)

(DE) Prerequisite(s): 132.

433 The Land-Surface System(3)

(DE) Prerequisite(s): 132.

REVISE DESCRIPTION, DELETE (DE)PREREQUISITE AND ADD RECOMMENDED BACKGROUND

435 Biogeography (3) Study of the changing distribution patterns of plants and animals on a variety of spatial and temporal scales. The effects plate tectonics, Pleistocene climatic change, and human activity of world biota.

Recommended Background: introductory physical geography or coursework in botany or ecology.

REVISE (DE) PREREQUISITE

436 Water Resources (3)

(DE) Prerequisite(s): 132.

REVISE TO REMOVE (DE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

439 Plant Geography of North America (3)

Recommended Background: introductory physical geography or coursework in botany or ecology.

454 Terrain Analysis (3)

Recommended Background: 132 or Geology 101 and 102 or Geology 107 and 108.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF HISTORY

(462) History

REVISE HOURS AND REPEATABILITY

591 Foreign Study (1-12)

Repeatability: May be repeated. Maximum 12 hours.

592 Off-Campus Study (1-12)

Repeatability: May be repeated. Maximum 12 hours.

593 Independent Study (1-12)

Repeatability: May be repeated. Maximum 12 hours.

REVISE REPEATABILITY

621 Directed Readings (3)

Repeatability: May be repeated. Maximum 6 hours.

REQUEST APPROVAL FOR VARIABLE TITLE

532 Topics in Modern Europe (3)

533 Topics in European National History (3)

541 Topics in Early American History (3)

542 Topics in 19th-Century United States (3)

543 Topics in 20th-Century United States (3)

544 Topics in U.S. Environmental History (3)

551 Topics in the History of Foreign Relations (3)

552 Topics in Military History (3)

555 Topics in United States Social and Economic History

556 Topics in European Social and Economic History

557 Topics in Cultural and Intellectual History (3)

558 Topics in United States Regional and Local History (3)

559 Topics in Jewish History (3)

561 Topics in Latin American History (3)

562 Topics in Asian History (3)

580 Topics in History (3)

585 Topics in World History (3)

INTERDISCIPLINARY PROGRAMS

(251) Cinema Studies

ADD CROSS-LISTED SECONDARY COURSES

482 Special Topics in Global Cinema (3) *(See Modern Foreign Languages and Literatures 482.)*

582 Special Topics in Global Cinema (3) *(See Modern Foreign Languages and Literatures 582.)*

(440) Global Studies

ADD CROSS-LISTED SECONDARY COURSES

482 Special Topics in Global Cinema (3) *(See Modern Foreign Languages and Literatures 482.)*

(617) Legal Studies

DROP SECONDARY CROSS-LISTED COURSE FOR GRADUATE CREDIT

400 Mass Communications Law and Ethics (3) *(See Journalism and Electronic Media 400.)*

(985) Urban Studies

▶ DROP DISCIPLINE AND ALL COURSES

411 The City in the United States (3) *(See Political Science 402.)*

412 Survey of Planning (3) *(See Political Science 403.)*

441 Urban Geography of the United States (3) *(See Geography 441.)*

442 Urban Social Geography (3) *(See Geography 442.)*

446 Housing (3) *(See Political Science 446.)*

464 Urban Ecology (3) *(See Sociology 464.)*

(994) Women's Studies

ADD CROSS-LISTED SECONDARY COURSES

512 History of Women's Education (3) *(See Cultural Studies in Education 512.)*

548 Transforming Critical Thinking: Constructive Thinking and Educational Implications (3) *(See Cultural Studies in Education 548.)*

609 Feminist Theories and Education (3) *(See Cultural Studies in Education 609.)*

REPEATABILITY CLARIFICATION

400 Topics in Women's Studies (3)

Repeatability: May be repeated. Maximum 6 hours.

593 Independent Study (1-6)

Repeatability: May be repeated: Maximum 8 hours.

LIFE SCIENCES (INTERDEPARTMENTAL)**(621) Life Sciences**

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)*Repeatability: May be repeated. Maximum 15 hours.***592 Off-Campus Study (1-15)***Repeatability: May be repeated. Maximum 15 hours.***593 Independent Study (1-15)***Repeatability: May be repeated. Maximum 15 hours.***DEPARTMENT OF MATHEMATICS****(641) Mathematics**

DROP

401 Mathematics and Microcomputers (3)

REVISE TO ADD RECOMMENDED BACKGROUND

506 Algebra for Teachers (3)*Recommended Background: 1 year of calculus or equivalent.*

REVISE TO ADD (DE) PREREQUISITES

545 Real and Complex Analysis (3)*(DE) Prerequisite(s): 445 and 446.***546 Real and Complex Analysis (3)***(DE) Prerequisite(s): 445 and 446.*

REVISE (DE) PREREQUISITES AND ADD REGISTRATION PERMISSION

635 Advanced Partial Differential Equations (3)*(DE) Prerequisite(s): 545 and 546 or 547 and 548.**Registration Permission: consent of instructor.***636 Advanced Partial Differential Equations (3)***(DE) Prerequisite(s): 545 and 546 or 547 and 548.**Registration Permission: consent of instructor.*

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

517 Mathematical Methods in Physics I (3) *(See Physics 571.)***518 Mathematical Methods in Physics II (3)** *(See Physics 572.)*

REVISE (DE) PREREQUISITES AND REMOVE (DE) COREQUISITES

641 Functional Analysis (3)*(DE) Prerequisite(s): 545 and 546.***642 Functional Analysis (3)***(DE) Prerequisite(s): 545 and 546.*

REVISE (DE) PREREQUISITES

643 Harmonic Analysis (3)*(DE) Prerequisite(s): 545 and 546.***644 Harmonic Analysis (3)***(DE) Prerequisite(s): 545 and 546.*

REPEATABILITY CLARIFICATION

510 Applied Mathematics Laboratory (1)*Repeatability: May be repeated. Maximum 2 hours.*

681 Advanced Mathematical Ecology (3)

Repeatability: May be repeated. Maximum 6 hours.

682 Advanced Mathematical Ecology (3)

Repeatability: May be repeated. Maximum 6 hours.

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

593 Independent Study (1-12)

Repeatability: May be repeated. Maximum 12 hours.

DEPARTMENT OF MICROBIOLOGY**(684) Microbiology**

ADD

540 Genomics and Bioinformatics (3) Fundamentals of a new scientific discipline based on sequencing genomes (entire DNA) of individual organisms. Goals, principles and types of genome analysis are covered in a traditional lecture course. Computational tools for genome analysis (bioinformatics) are presented in both lecture and hands-on (computer-laboratory) settings.

Credit Restriction: Students may not receive credit for both 480 and 540.

606 Journal Club in Microbial Ecology (1) Readings and discussions based on current literature.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 18 hours.

660 Topics in Eukaryotic Pathogens (3)

Repeatability: May be repeated. Maximum 12 hours.

Registration Permission: consent of instructor.

REVISE CREDIT HOURS AND CLARIFY REPEATABILITY

591 Foreign Study (1-9)

Repeatability: May be repeated. Maximum 9 hours.

592 Off-Campus Study (1-9)

Repeatability: May be repeated. Maximum 9 hours.

593 Independent Study (1-9)

Repeatability: May be repeated. Maximum 9 hours.

DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES

▶ ADD NEW ACADEMIC DISCIPLINE AND COURSES

(686) Modern Foreign Languages and Literatures

ADD AND CROSS LIST PRIMARY COURSE AND REQUEST APPROVAL FOR VARIABLE TITLE:

482 Special Topics in Global Cinema (3) Content varies. Focus from global perspectives on directors, stars, film genres, national and regional cinema movements or other topics. Taught in English. (*Same as Cinema Studies 482; Global Studies 482.*)

Repeatability: May be repeated. Maximum 6 hours.

582 Special Topics in Global Cinema (3) Content varies. Focus from global perspectives on particular directors, stars, film genres, national and regional cinema movements, film theory/criticism, or other topics. Taught in English. (*Same as Cinema Studies 582.*)

Repeatability: May be repeated. Maximum 6 hours.

(405) French

REVISE REPEATABILITY AND REQUEST APPROVAL FOR VARIABLE TITLE

580 Critical Moments in French and Francophone Studies, or Linguistics (3)

Repeatability: May be repeated. Maximum 12 hours.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

(433) German

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

(584) Italian

REVISE REPEATABILITY

510 Readings in Italian Literature (3)

Repeatability: May be repeated. Maximum 6 hours.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

(811) Portuguese

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

(886) Russian

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

(924) Spanish

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

SCHOOL OF MUSIC**(707) Music Education**

REVISE CREDIT HOURS, DESCRIPTION, AND REPEATABILITY; REMOVE (DE) PREREQUISITE; ADD REGISTRATION PERMISSION

571 Musical Repertoire Laboratory (2) Examination and production of musicals appropriate for student in grades K-8. Addresses singing, dancing, acting, costumes, set design, traditional and non-traditional instrumentals ensembles.

Repeatability: May be repeated. Maximum 12 hours.

Registration Permission: consent of instructor.

REQUEST APPROVAL FOR VARIABLE TITLE

590 Special Topics in Music Education (1-3)**(708) Music Ensemble**

REVISE TO ADD REPEATABILITY

511 Marimba Choir (1)

Repeatability: May be repeated. Maximum 12 hours.

REVISE REPEATABILITY

504 Jazz Ensemble (1)

Repeatability: May be repeated. Maximum 12 hours.

506 Trombone Choir (1)

Repeatability: May be repeated. Maximum 12 hours.

510 Percussion Ensemble (1)

Repeatability: May be repeated. Maximum 12 hours.

530 Chamber Singers (1)

Repeatability: May be repeated. Maximum 12 hours.

540 Opera Theatre (1)

Repeatability: May be repeated. Maximum 12 hours.

550 Concert Band (1)

Repeatability: May be repeated. Maximum 12 hours.

554 Varsity Band (1)

Repeatability: May be repeated. Maximum 12 hours.

559 Marching Band (1)

Repeatability: May be repeated. Maximum 12 hours.

570 Symphony Orchestra (1)

Repeatability: May be repeated. Maximum 12 hours.

580 Concert Choir (1)

Repeatability: May be repeated. Maximum 12 hours.

589 Women's Chorale (1)

Repeatability: May be repeated. Maximum 12 hours.

599 Accompanying (1)

Repeatability: May be repeated. Maximum 12 hours.

(698) Music General

REVISE REPEATABILITY

540 Secondary Applied Music (1)

Repeatability: May be repeated. Maximum 12 hours.

(712) Music Keyboard

REVISE DESCRIPTION AND (DE) PREREQUISITE

460 The Organ and Its Literature I (3) Development of the organ and organ literature from the Middle Ages to approximately 1750; problems of style and interpretation; pedagogical literature and methods.
(DE) Corequisite(s): Musicology 110.

470 The Organ and Its Literature II (3) Development of the organ and organ literature from 1750 to the present; problems of style and interpretation; pedagogical literature and methods.
(DE) Corequisite(s): Musicology 110.

REVISE DESCRIPTION

485 Suzuki Piano Method I (2) Study of the philosophy, procedures, and literature of the Suzuki Piano Methods Books I and II.

495 Suzuki Piano Method II (2) Study of procedures and literature of the Suzuki Piano Method Books III and above.

(714) Music Theory

REPEATABILITY CLARIFICATION

593 Independent Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

(715) Music Voice

REVISE CREDIT HOURS AND DESCRIPTION

530 Opera Performance (1) For satisfaction of performance requirement. May be fulfilled by undertaking a major operatic role or by demonstrating a cumulative performance record which may include a project approved and supervised by the voice faculty.

570 Vocal Chamber Music Performance (1) For satisfaction of performance requirement. May be used to substitute for Music Voice 530 when approved and supervised by the voice faculty.

REVISE DESCRIPTION

580 Choral Literature I (2) A historical survey of the development of the major choral genre.

585 Choral Literature II (2) A survey by historical period of choral literature that is considered part of the standard choral repertoire.

REPEATABILITY CLARIFICATION

594 Project in Choral Conducting Performance (1-3)
Repeatability: May be repeated. Maximum 36 hours.

595 Choral Conducting Seminar (3)
Repeatability: May be repeated. Maximum 36 hours.

(706) Musicology

REVISE TITLE AND DESCRIPTION

410 Studies in Genre (3) Historical, cultural, analytical, and musicological issues related to a single musical genre, style, or repertoire. Topics vary.

REVISE DESCRIPTION, ADD RECOMMENDED BACKGROUND, AND REGISTRATION PERMISSION

420 History of Opera (3) The development of opera from its inception to the present. Readings and discussion focus on an understanding of the historical trajectory of opera, both as a musico-theatrical work and as a cultural practice.
Recommended Background: 100-level musicology course.
Registration Permission: consent of instructor.

REVISE TITLE AND DESCRIPTION, ADD RECOMMENDED BACKGROUND AND REGISTRATION PERMISSION

430 History of the Symphony (3) Overview of orchestral repertoires from 1600 to the present.
Recommended Background: 100-level musicology course.
Registration Permission: consent of instructor.

REVISE DESCRIPTION AND ADD REPEATABILITY

450 Composer Seminar (3) Biographical, historical, and cultural study of a composer, or a group of related composers. Topics vary.

Repeatability: May be repeated. Maximum 6 hours.

REVISE TITLE AND DESCRIPTION, ADD (DE) PREREQUISITE, (DE) COREQUISITE, AND REGISTRATION PERMISSION

540 Medieval and Renaissance Music (3) Musical phenomena from c. 900 to c. 1600, selected from chant, troubadour song, early polyphony, madrigal, mass, and motet. Genres considered against historical, cultural, analytical, and literary frameworks, including words-music relationships, the role of music in devotion, sacred and secular interchanges, oral and written transmissions.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

570 Music in the Nineteenth Century (3) Music of the nineteenth century from Beethoven to the post-Romantics with a focus on aesthetic, cultural and social contexts. Opera, symphony, art song, piano works, and others examined against the frameworks of cultural theory, gender studies, orientalism, politics and philosophy.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

REVISE DESCRIPTION, ADD (DE) PREREQUISITE, (DE) COREQUISITE, AND REGISTRATION PERMISSION

550 Music in the Baroque Period (3) Aspects of western European art music, c. 1600 to c. 1750, from historical and cultural perspectives. Genre, national identities, the roles of voices and instruments, the emergence of tonality, issues of gender, and music's role in social, religious and performance practices.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

560 Music in the Classic Period (3) The development of classical style from preclassic to the music of Haydn, Mozart and early Beethoven. Focus on aesthetic, cultural and social frameworks pertaining to various genres and composers. Selected vocal and orchestral works examined with respect to themes of appropriation, politics, narratives, and biographical references.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

580 Music in the Twentieth Century (3) Composers, repertoires, and issues in twentieth-century art music of western Europe and the United States. New roles for composers and performers, confluences of "high" and "low" art forms, influences of technology, and music's place in the formation of national, political, and gendered identities.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

REVISE DESCRIPTION; ADD (DE) PREREQUISITE, (DE) COREQUISITE, REGISTRATION PERMISSION, REPEATABILITY, AND REQUEST APPROVAL FOR VARIABLE TITLE

585 Topics in Music of the Americas (3) Historical or cultural study of a topic concerned with music and musical practice in the Americas. Topics vary.

Repeatability: May be repeated. Maximum 6 hours.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

REVISE (DE) PREREQUISITE; ADD (DE) COREQUISITE AND REGISTRATION PERMISSION

590 Introduction to Ethnomusicology (3) Ethnomusicology as scholarly discipline. History, theories, and methodologies as applied to study of music in culture.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

Registration Permission: consent of instructor.

REVISE DESCRIPTION AND (DE) PREREQUISITE; ADD (DE) COREQUISITE, REPEATABILITY, AND REQUEST APPROVAL FOR VARIABLE TITLE

595 Seminar in Ethnomusicology (3) Exploration of a methodological, theoretical, or ethnographic topic in ethnomusicology. Topics vary.

Repeatability: May be repeated. Maximum 6 hours.

(DE) Prerequisite(s): 400.

(DE) Corequisite(s): Music General 510.

REQUEST APPROVAL FOR VARIABLE TITLE

586 Topics in Opera (3)

596 Seminar in Historical Musicology (3)

DEPARTMENT OF PHILOSOPHY

(745) Philosophy

ADD

589 PhD Practicum in Applied Ethics (1-15) Supervised experience in such settings as health care, business, legal, or environmental institutions.

Repeatability: May be repeated. Maximum 30 hours.

Credit Restriction: Does not count toward hours required for the degree.

Comment(s): Open to PhD students in philosophy with consent of the Graduate Committee.

DROP

588 PhD Clinical Practicum (9)

REVISE REPEATABILITY AND CREDIT HOURS

510 Philosophical Research (1-15)

Repeatability: May be repeated. Maximum 15 hours.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

REQUEST APPROVAL FOR VARIABLE TITLE

528 Topics in Contemporary Philosophy (3)

540 Topics in Ethics or Value Theory (3)

542 Topics in History of Ethics (3)

577 Topics in Philosophy of Mind (3)

585 Special Topics (3)

590 Topics in Social and Political Philosophy (3)

DEPARTMENT OF PHYSICS AND ASTRONOMY

(773) Physics

REVISE TITLE AND DESCRIPTION

511 Theoretical Physics I (3) Concepts and applications in applied physics. Topics: one-body, two-body and rigid body dynamics, ideal fluid, small oscillations and waves, elements of special relativity, electrostatic and magneto-static problems, and other modern applications of current interest, in areas of biophysics and astrophysics.

512 Theoretical Physics II (3) Concepts and applications in applied physics. Topics: electrostatic and magneto-static problems, EM waves, duality and quantization, absorption and emission, statistical ensemble and thermal equilibrium, and other modern applications of current interest, in areas of quantum chemistry, biophysics, optics, spectroscopy, and astrophysics.

REVISE TITLE; DELETE (DE) PREREQUISITE AND COMMENT; ADD RECOMMENDED BACKGROUND

571 Mathematical Methods in Physics I (3) Linear vector spaces, matrices, tensors, curvilinear coordinates, functions of a complex variable, partial differential equations and boundary value problems, Green's functions, integral transforms, integral equations, spherical harmonics, Bessel functions, calculus of variations. (*Same as Mathematics 517.*)
Recommended Background: advanced calculus and differential equations.

REVISE TITLE, DESCRIPTION, AND (DE) PREREQUISITE; DELETE COMMENT

572 Mathematical Methods in Physics II (3) Advanced Problems. Topics may vary according to interests of students and instructor. (*Same as Mathematics 518.*)
(DE) Prerequisite(s): 571.

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF POLITICAL SCIENCE

(801) Political Science

REVISE PRIMARY COURSE TO DROP CROSS LISTING

402 The City in the United States (3) (*Same as Urban Studies 411.*)

403 Survey of Planning (3) (*Same as Urban Studies 412.*)

446 Housing (3) (*Same as Urban Studies 446.*)

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF PSYCHOLOGY

(830) Psychology

REPEATABILITY CLARIFICATION

489 Supervised Research (1-9)
Repeatability: May be repeated. Maximum 12 hours.

DEPARTMENT OF RELIGIOUS STUDIES

(863) Religious Studies

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)
Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF SOCIOLOGY**(915) Sociology**

REVISE PRIMARY COURSE TO DROP CROSS-LISTING

464 Urban Ecology (3) (*Same as Urban Studies 464.*)

REPEATABILITY CLARIFICATION

591 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

592 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF THEATRE**(976) Theatre**

REPEATABILITY CLARIFICATION

491 Foreign Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

492 Off-Campus Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

493 Independent Study (1-15)

Repeatability: May be repeated. Maximum 15 hours.

REVISE TITLE; ADD (DE) PREREQUISITE AND DELETE REPEATABILITY

425 Advanced Musical Theatre (3)

(DE) Prerequisite(s): 325.

PART II: PROGRAM CHANGES**DEPARTMENT OF AUDIOLOGY AND SPEECH PATHOLOGY**

REVISE SPEECH PATHOLOGY MAJOR (MA)

On page 68 of the 2005-2006 Graduate Catalog, 1st column, Master of Arts, Speech Pathology Major, Requirements, revise first paragraph to:

The master's program in speech pathology is a two year program and consists of the completion of 42 hours of academic content courses (including thesis) plus practicum.

On page 68 of the 2005-2006 Graduate Catalog, 2nd column, Master of Arts, Speech Pathology Major, Requirements, first paragraph, 1st sentence, revise to:

The required courses are 506, 511, 518, 526, 527, 539 or 541, 540, 561, 582, and at least one seminar from the following courses: 522, 523, 531, 626, or 661. Students will also take at least 12 credit hours of elective courses with no more than 6 credit hours below the 500 level.

DEPARTMENT OF EARTH AND PLANETARY SCIENCES

REVISE GEOLOGY MAJOR (MS)

On page 73 of the 2005-2006 Graduate Catalog, 2nd column, Master of Science, Geology Major, Requirements, 3rd bullet, number 2, revise to:

2. 450, 545, 546, 556, 557

DEPARTMENT OF ENGLISH

REVISE ENGLISH MAJOR (PHD)

On page 76 of the 2005-2006 Graduate Catalog, 2nd column, Doctor of Philosophy, Coursework, revise 1st sentence to:

At least 54 hours beyond the BA (of which at least 30 hours must be beyond the MA)...

DEPARTMENT OF HISTORY

REVISE HISTORY MAJOR (PHD)

On page 79 of the 2005-2006 Graduate Catalog, 2nd column, Doctor of Philosophy, Group III (Teaching Field) Examination, revise to:

This is a one-hour oral exam that must be completed at any time before the comprehensive examination is taken. If a student fails the exam, he or she may retake the exam one time only and must do so the following semester. European and U. S. history courses may not be used for the Group III World History field.

On page 80 of the 2005-2006 Graduate Catalog, 1st column, Doctoral Fields, Group II: European, revise to:

European—Ancient; Medieval; Early Modern; Modern; Political and Diplomatic; Intellectual and Cultural; Social and Economic National Fields

INTERDISCIPLINARY PROGRAMS

REVISE GRADUATE CERTIFICATE IN WOMEN'S STUDIES

On page 81 of the 2005-2006 Graduate Catalog, Graduate Certificate in Women's Studies, 2nd column, Requirements, revise 2nd bullet, last sentence for course requirements to:

Anthropology 517, Cultural Studies in Education 512, 548, 609, English 584, Health 420, 520, Public Health 585, Law 849, 862, 958, Sport Studies 543, Women's Studies 400, 410, 422, 425, 434, 469, 483, 510, 593.

LIFE SCIENCES (INTERDEPARTMENTAL)

REVISE PLANT PHYSIOLOGY AND GENETICS CONCENTRATION

On page 82 of the 2005-2006 Graduate Catalog, 1st column, Plant Physiology and Genetics Concentration, 3rd paragraph, first sentence. Remove courses Botany 521 and 522 and to the list of Biochemistry and Cellular and Molecular Biology add courses 521, 522 after 511 and 512.

DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES

REVISE GERMAN MAJOR (MA)

On page 86 of the 2005-2006 Graduate Catalog, 1st column, German Major, thesis option, 2nd sentence. Remove course German 520.

On page 86 of the 2005-2006 Graduate Catalog, 1st column, German Major, thesis option, 6th sentence, revise to:

An exam over the designated reading list is required, as is a thesis defense and a standardized language exam, such as the Zentrale Mittelstufenprüfung.

On page 86 of the 2005-2006 Graduate Catalog, 2nd column, Non-Thesis Option, 2nd sentence. Remove course German 520.

On page 87 of the 2005-2006 Graduate Catalog, 1st column, 3rd bullet, 500 level, 2nd sentence. Remove German course 520.

SCHOOL OF MUSIC

REVISE CATALOG TEXT (MISSION STATEMENT)

On page 88 of the 2005-2006 Graduate Catalog, 2nd column, Mission Statement, remove the 2 existing paragraphs and replace with the following 5 paragraphs.

The mission of the School of Music is to provide the highest quality instruction in the musical arts and to cultivate creative activity and research in the areas of composition, education, musicology, pedagogy, performance, and theory. As part of

its mission, the school enriches the musical and educational lives of its students, the university community and citizens of Tennessee.

In support of this mission, the school's curricula and course offerings are designed to

- develop technical and artistic abilities in performance
- foster individual and collaborative work
- promote an understanding of theoretical, historical and cultural studies of music
- provide skills in teaching and the knowledge of educational principles
- encourage interpretive, creative and scholarly expression. Such preparation enables students to be competitive in music careers and related fields and to continue study at an advanced level.

To foster a greater understanding of music, the faculty regularly engage in artistic, educational, and scholarly activities through performances, workshops, publications, and participation in professional organizations.

The school fulfills its service mission to enrich the educational and cultural life of the university community at large by offering a broad range of courses, performance opportunities, as well as public concerts, recitals, and musical productions.

The school also aims to promote a greater understanding of cultural diversity among faculty and students; build a diverse student and faculty community; and offer curricula that require students to engage with the musical richness of our world and develop their own musical identities within an increasingly interconnected globe.

Ⓞ ADD GRADUATE CERTIFICATE – ARTIST CERTIFICATE IN MUSIC

On page 88 of the 2005-2006 Graduate Catalog, 2nd column, after section on Requirements for Master of Music, add the new Artist Certificate in Music information:

ARTIST CERTIFICATE IN MUSIC

The Artist Certificate in Music is a full-time graduate performance program designed to prepare the most talented, outstanding keyboard and string performers for careers as professional performing musicians. Students accepted into this certificate program must demonstrate the ability to perform advanced repertoire with technical and artistic mastery and have the potential for success at major competitions or auditions for major orchestras, or want to begin a professional career. Students will take courses that build the repertoire, artistry, and performance skills necessary for a professional performer.

Admission Requirements

Applicants to this certificate program must hold a minimum of the bachelor's degree or equivalency, and follow the procedures and regulations for applying for admission to graduate study at the University of Tennessee, Knoxville, and the Graduate Division of the School of Music. Required credentials for admission to the School of Music include an application, university application fee, official transcripts of all post-secondary studies, two letters of recommendation, and a repertoire list. Students whose first language is not English must submit TOEFL results of 550 (paper-based test) or 213 (computer-based test) or higher to be considered for admission.

Final admission to the certificate program is granted following successful completion of a thirty-minute Artist Certificate admission audition. The audition repertoire should include selections demonstrating the student's ability to perform in various musical styles. If distance to the audition is a hardship, applicants may submit a thirty-minute videotape/DVD (public performance preferred); the student must also present a live audition before a designated faculty committee during the first semester of residence.

Once accepted, all students are required to take the diagnostic examinations in musicology, area literature, music theory, and ear training before registering for courses. The examinations are given on the first day of registration each semester, beginning at 9:00 a.m. and concluding at approximately 4:00 p.m. Each entering student should notify the graduate secretary to indicate the semester that s/he intends to enter and take the examinations.

Program of Study

Students may specialize in string or keyboard performance. To receive the Artist Certificate in Music, the student must successfully complete an artist certificate curriculum of at least 19 hours (see School of Music Graduate Handbook, available in 211 Music Building) with a cumulative GPA of 3.0 or better. The curriculum is centered on intensive activities related to performance, including private lessons, large and small ensembles, recitals, and courses in area literature, performance practices, and repertoire. Courses chosen for music electives should be lecture courses. All required recitals are to be performed in public with a committee of the School of Music faculty in attendance. Enrollment for a minimum of two semesters is required with a maximum of two years allowed for completion of the program. The School of Music may require additional hours. All course requirements must be completed at the University of Tennessee, Knoxville.

DEPARTMENT OF PHYSICS AND ASTRONOMY

REVISE PHYSICS MAJOR (MS)

On page 90 of the 2005-2006 Graduate Catalog, 2nd column, Master of Science, Physics Major, Requirements for:

Thesis Option: Revise first sentence to add course 506, and delete courses 532, 542, and 572.

Thesis Option (Geophysics concentration) Revise to add course 506, and delete courses 532, 542, and 572.

Project Option: Revise first sentence to delete courses 532, 542, 572.

Non-Thesis Option: Revise second sentence to add course 506 and delete courses 532, 542, and 572.

On page 90 of the 2005-2006 Graduate Catalog, 2nd column, Doctor of Philosophy, Physics Major, Requirements, 2nd sentence delete course Chemistry 540 as an option.

Ⓞ ADD NANOMATERIALS CONCENTRATION FOR PHYSICS MAJOR (PHD)

Page 91 of the 2005-2006 Graduate Catalog, 1st column. Insert as new paragraph before "To be admitted to PhD candidacy students must..." the requirements for the new PhD concentration in nanomaterials:

Students concentrating in nanomaterials must take a minimum 15 hours of 600-level courses, of which at least six hours are offered by the department and at least six hours are from a list of courses offered by several departments which are appropriate for a concentration in nanomaterials. This list is available from the Director of the Graduate Program. In addition to the departmental core curriculum listed above, they must take additional courses at the 400 through 500-level, with at least six hours offered by the department and six hours from the list.

DEPARTMENT OF POLITICAL SCIENCE

Ⓞ DROP REAL ESTATE DEVELOPMENT PLANNING CONCENTRATION (PLANNING MAJOR – MSP)

Ⓞ ADD THREE NEW CONCENTRATIONS (PLANNING MAJOR – MSP) – PUBLIC ADMINISTRATION, REAL ESTATE DEVELOPMENT/ECONOMIC DEVELOPMENT, URBAN DESIGN

REVISE PLANNING MAJOR (MSP)

On page 93 of the 2005-2006 Graduate Catalog, 1st column, Master of Science in Planning, Requirements, 1st bullet, 1st sentence,

Delete second course listed 546 and add course 531.

On page 93 of the 2005-2006 Graduate Catalog, 1st column, Master of Science in Planning, Requirements, 2nd bullet Concentration: Revise to indicate the correct concentrations available and delete the last sentence which begins, "Students may also..."

Ⓞ MOVE ENVIRONMENTAL POLICY MINOR FROM THE DEPARTMENT OF ECONOMICS TO THE DEPARTMENT OF POLITICAL SCIENCE AND REVISE REQUIREMENTS FOR THE MINOR

Insert policy and requirements at bottom of page 93.

The department houses a program designed to give graduate students an opportunity to develop an interdisciplinary specialization in environmental policy.

The program is designed to give master's and doctoral level graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. While administered through the Political Science Department, the program is coordinated by a committee of representatives from the following participating departments and programs: Agricultural Economics; Civil and Environmental Engineering; Ecology and Evolutionary Biology; Economics; Forestry, Wildlife and Fisheries; Geography; Management; Political Science; and Sociology.

Students may request admission to the minor following admission to a graduate program in one of the participating departments. Students in good standing in one of these programs may apply for admission to the minor in environmental policy. The coordinating committee will consider the admission of interested students. Applicants should have a background in both natural and social sciences evidenced by prior coursework or experience.

Requirements

One course in environmental studies from the student's major discipline and one course in quantitative methods are required. These requirements may be fulfilled before or after admission to the minor. All students admitted to the minor will be required to register for Political Science 549, and to complete successfully the following:

- A choice of Ecology and Evolutionary Biology 421 or 484 or another Ecology and Evolutionary Biology course with the consent of the program coordinating committee; or Geography 433 or approved equivalent as determined by the program coordinating committee.
- Six hours of coursework outside the major discipline approved by the coordinating committee.

Doctoral students seeking a minor in environmental policy must also complete, in addition to above, a policy-relevant dissertation approved by the coordinating committee.

DEPARTMENT OF PSYCHOLOGY

REVISE CLINICAL PSYCHOLOGY CONCENTRATION (PSYCHOLOGY MAJOR – PHD)

On page 95 of the 2005-2006 Graduate Catalog, Clinical Psychology Concentration Requirements, 2nd column, number 13, Revise to read: 13. Psychometrics (555) and delete or Applied Psychological Measurement (557).

DEPARTMENT OF SOCIOLOGY

REVISE POLITICAL ECONOMY CONCENTRATION (SOCIOLOGY MAJOR – MA AND PHD)

On page 96 of the 2005-2006 Graduate Catalog, 2nd column, 2nd paragraph, last sentence, Delete 540, second course listed.

REVISE ADMISSION REQUIREMENTS

On page 96 of the 2005-2006 Graduate Catalog, 2nd column, Admission, add the following as the 2nd bullet (making four bullets):

- Overall undergraduate grade point average (GPA) of 3.0 or higher.

COLLEGE OF BUSINESS ADMINISTRATION

All changes effective Fall 2006

I. COURSE CHANGES**(205) Business Administration**

ADD

520 Innovation and Entrepreneurship (3) Introduces students to innovation and entrepreneurship business logics and strategies. Topics include innovative problem solving, business consulting practices, business planning, continuous improvement, transformational change leadership, and project management.

(DE) Prerequisite(s): 511, 512, and 513.

ADD

595 Entrepreneurial Strategy Implementation (3) Student teams of 2-4 individuals work with an entrepreneur to implement business strategies. Guided by a Statement of Work, students will conduct research, analyze company data, and interact weekly with the entrepreneur to understand goals of the strategy being implemented. One student per team will serve as the project manager, and a faculty member will serve as the Client Partner lead.

(DE) Prerequisite(s): 511, 512, 513, and 520.

REVISE COMMENTS

511 MBA Core I (3)

Comment(s): Admission to MBA program or consent of MBA Program Director.

591 International Travel (1)

Comment(s): Admission to MBA program or consent of MBA Program Director.

REVISE TO ADD COMMENTS

512 MBA Core II (3)

Comment(s): Admission to MBA program or consent of MBA Program Director.

513 MBA Core III (3)

Comment(s): Admission to MBA program or consent of MBA Program Director.

514 Integrated Business Simulation (1)

Comment(s): Admission to MBA program or consent of MBA Program Director.

DEPARTMENT OF ECONOMICS**(283) Economics**

ADD

421 International Economics (3) Balance of payments, exchange rate determination, monetary and fiscal policies, monetary arrangements, comparative advantage, tariff and non-tariff trade distortions, protection arguments, and regional integration, with analyses based upon intermediate-level economic theory.

(DE) Prerequisite(s): 311 or 312.

436 Economics of Health and Health Care (3) Medical care and health status; demand for medical care and insurance; physician and hospital supplies; government provision of services and insurance; regulation of health care markets.

(DE) Prerequisite(s): 311 or 312.

441 Labor Economics (3) Extension of economic principles to labor markets, public policy questions, demand and supply, theory of wage differentials, unemployment, unions in the private sector, investment in individuals, education and training, mobility.

(DE) Prerequisite(s): 311 or 312.

463 Environmental Economics (3) Economic foundations for public decision-making about environmental resources, utilizing tools from intermediate microeconomic theory. Emphasis on the welfare economic approach for the provision of public goods, with specific emphasis on market failure, externalities, benefit-cost analysis, and methods for valuing environmental resources and human health.

(DE) Prerequisite(s): 311 or 312.

DROP

462 Economics of Resources and Environmental Policy (3)

471 Public Finance: Optimal Government Functions and Expenditure Analysis (3)

REVISE DESCRIPTION, TITLE, PREREQUISITE AND REMOVE REPETITION, ADD REGISTRATION PERMISSION

400 Special Topics II (3) Variable topics for advanced students.

(DE) Prerequisite(s): 311 or 312 and 313.

Registration Permission: consent of instructor.

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

413 Macroeconomics: Business Cycles and Growth (3) Analysis of macroeconomic short-run fluctuations and long-term growth. Coverage will also include the role of monetary and fiscal policy on aggregate output, employment, and interest rates.

(DE) Prerequisite(s): 313.

REVISE TITLE AND PREREQUISITE

435 Industrial Organization (3) Monopoly and competition in United States economy, interrelationship of market structure, business behavior, and economic performance.

(DE) Prerequisite(s): 311 or 312.

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

472 Public Finance: Taxation and Fiscal Federalism (3) Analysis of federal, state, and local government revenue systems, to include individual and corporate income, sales, and property taxes and other tax and non-tax revenue sources. Consideration of current policy issues and relations among various levels of government.

(DE) Prerequisite(s): 311 or 312.

REVISE PREREQUISITE

482 Introduction to Mathematical Economics (3)

(DE) Prerequisite(s): 311 or 312.

DEPARTMENT OF FINANCE**(349) Finance**

ADD

593 Independent Study (3) Directed research and study.

Repeatability: May be repeated. Maximum 6 hours.

(DE) Prerequisite(s): Business Administration 511, 512, 513, and 514, or consent of instructor.

693 Independent Study (1-6) Directed research on subject of mutual interest to student and staff member.

Repeatability: May be repeated. Maximum 6 hours.

Registration Permission: consent of instructor.

DEPARTMENT OF MANAGEMENT**(529) Human Resource Development**

REPEATABILITY CLARIFICATION

613 Seminar in Selected Topics (3)

Repeatability: May be repeated. Maximum 6 hours.

(568) Industrial and Organizational Psychology

REPEATABILITY CLARIFICATION

690 Supervised Practicum, Internship or Field Training in Industrial/Organizational Psychology (1-15)

Repeatability: May be repeated. Maximum 15 hours.

DEPARTMENT OF MARKETING AND LOGISTICS**(626) Logistics**

REVISE DESCRIPTION AND CLARIFY REPEATABILITY

693 Independent Study (1-6) Directed research on subject of mutual interest to student and staff member.

Repeatability: May be repeated. Maximum 6 hours.

REPEATABILITY CLARIFICATION

593 Independent Study (3-6)

Repeatability: May be repeated. Maximum 6 hours.

REVISE DESCRIPTION AND TITLE

615 Survey of Models in Marketing and Logistics Research (3) Survey of models and methodologies and their application in logistics and marketing research, topical coverage at discretion of instructor.

(632) Marketing

REVISE DESCRIPTION AND ADD REGISTRATION PERMISSION

614 Contemporary Marketing Thought (3) Representative topics comprising content of marketing knowledge; macromarketing, markets, channels, and competitive behavior; marketing strategy; marketing mix tools; and ethical issues in marketing. Examination of research for contributions to advancing knowledge and opportunities for new research. Offered every other year.

Registration Permission: consent of instructor.

615 Consumer Behavior Research (3) Theoretical perspective and research processes describing people in their roles as buyers, users, and evaluators of goods and services. Includes coverage of both end user consumers and industrial buyers. Topics of interest include motivation, personality, attitude formation and change, information processing, choice, decision making for buying and selling activities as well as operational management decision making processes, consumption, post-purchase consumption, cultural and demographic differences, consumer socialization, and ethical considerations. Offered every other year.

Registration Permission: consent of instructor.

REPEATABILITY CLARIFICATION

693 Independent Study (1-6)

Repeatability: May be repeated. Maximum 6 hours.

DEPARTMENT OF STATISTICS, OPERATIONS AND MANAGEMENT SCIENCE**(962) Statistics**

REPEATABILITY CLARIFICATION

585 Principles of Statistical Process Management (1-3)

Repeatability: Not repeatable. May be taken once for 1-3 hours.

II. PROGRAM CHANGES**DEPARTMENT OF ACCOUNTING AND INFORMATION MANAGEMENT**

DROP ASSURANCE SERVICES CONCENTRATION AND INFORMATION MANAGEMENT CONCENTRATION (ACCOUNTING MAJOR – MASTER OF ACCOUNTANCY)

ADD AUDIT AND CONTROLS CONCENTRATION (ACCOUNTING MAJOR – MASTER OF ACCOUNTANCY)

REVISE MASTER OF ACCOUNTANCY

On page 106 of the 2005-2006 Graduate Catalog, revise to

**Master of Accountancy
Accounting Major**

The objective of the Master of Accountancy program is to prepare individuals who have a high level of ability and motivation for successful careers in professional accounting and industry. This nationally recognized program uses active learning methods to engage students in global business planning, practices, and strategies. The program offers students the breadth of a broad business perspective and exposure to cutting-edge management issues. It also provides students with the technical depth required for a career that begins in auditing or taxation. Coursework includes a particular focus on the development of analytical skills, communication skills (both oral and written), and research skills.

The Master of Accountancy program is a full-time, weekday program. The nature of the program precludes students from simultaneously working full-time outside of classes. UT's accounting undergraduate and graduate programs are accredited by AACSB International and are among the first programs in the nation to receive this accreditation.

Admission

Students may begin graduate coursework for the MAcc only in fall semester. The application deadline is March 1 (February 1 for international students) and applications received after that date will be considered as space allows.

The program is designed both for students who have completed an accredited baccalaureate degree program with a major in accounting and others. Students with an accounting degree from an accredited baccalaureate degree program normally meet all prerequisites for the program. Students with outstanding undergraduate records in areas other than accounting may enter the MAcc program, (which starts in the fall semester) by completing coursework in introductory accounting and economics, and the following prerequisite undergraduate courses: Accounting 311, 321, 411, 414, and 431, Information Management 341, and Finance 301, or their equivalents as approved by the Director of the MAcc program. All prerequisites must be completed prior to the start of graduate coursework in fall semester. In addition to the general admission requirements, MAcc. applicants are required to take the Graduate Management Admission Test (GMAT) and submit information on forms provided by the Department of Accounting and Information Management. Applicants whose native language is not English must submit results of the Test of English as a Foreign Language (TOEFL).

For admission to the MAcc program, consideration is given to

- applicant's academic records with particular attention to the last two years of undergraduate work
- scores on the GMAT, and TOEFL for those whose native language is not English
- internships and/or work experience and other activities that demonstrate potential for leadership
- recommendations from professors and/or work supervisors

The admission decision is based on all factors that make up the total application; therefore, there is no automatic cutoff for either grade point average or GMAT scores.

Students will be expected to have a laptop computer for use in the classroom and for assignments. Additional details concerning the hardware and software configurations required are posted on the departmental Web site.

Requirements

A student's program encompasses a minimum of 30 semester hours of graduate coursework. Specifically, the student must complete courses in accounting and other areas as indicated below. Each course is 3 semester hours of graduate credit.

Students take 12 hours each semester and 6 hours in the first summer session. Program requirements are
 Business Core (12 Hours) Business Administration 521, 522, 523, 524
 Concentration (18 hours)
 Two concentrations are available.

Audit and Controls – Accounting 507, 518, 519, 531; Information Management 541, 543

Taxation – Accounting 531, 532, 533, 534, 539, and an additional course.

Students may further modify their programs with approval of the Director of the MAcc program.

Transfer Credits

A maximum of six semester hours taken at other AACSB accredited institutions that otherwise conform to the transfer policy of the Graduate Council may be credited toward MAcc requirements.

Other Requirements

To qualify for the degree, a student must maintain a B average (3.0) or above in the program. The student must satisfactorily demonstrate his/her ability to recognize, analyze, and solve accounting policy problems and integrate concepts from the various areas of accounting by passing a comprehensive written examination. This examination is included in the capstone courses (Accounting 519 for the audit and controls concentration and Accounting 539 for the taxation concentration).

REMOVE THE ENVIRONMENTAL POLICY MINOR SECTION AND REQUIREMENTS ON PAGE 108.

The Minor has been administered by Political Science since 2003. Information and requirements is now located in the Department of Political Science.

Ⓞ ADD SECONDARY CONCENTRATION - INNOVATION AND ENTREPRENEURSHIP (BUSINESS ADMINISTRATION MAJOR –MBA)

REVISE MASTER OF BUSINESS ADMINISTRATION, BUSINESS ADMINISTRATION MAJOR

On page 101 of the 2005-2006 Graduate Catalog, revise to

Concentration and Electives

A concentration area may be indicated on the MBA Program Application or this declaration may be deferred until after matriculation. In any event, selection should be made after the first semester and must be made after completion of the first year. Requests for changes in concentration areas must be submitted for approval to the MBA Program Office.

Among the 15 credit hours in the concentration/electives block, 9 credit hours must be taken in one of the following primary concentration areas. For the specific courses required in primary concentration areas, see the appropriate department.

Finance, logistics, marketing, and operations management represent primary concentrations. A secondary concentration, innovation and entrepreneurship, can be taken in conjunction with one of the primary concentrations.

The first course in each concentration is designed to provide a foundation upon which the concentration can be built. These courses will be delivered in the latter part of the spring semester of the first year, after the spring core course has been completed. They are intended to prepare students for their summer internships. However, these courses should not be thought of as simply the first three hours in a nine-hour elective. Rather, these courses are self-contained, intensive introductions to a specialty area of business. Students will choose two of these courses in the spring semester, which will permit them flexibility for choosing concentrations in the second year of the program. Two additional courses in the concentration area will be taken in the second fall semester to meet the 9-hour requirement for a concentration.

Elective courses may be chosen from any 500-level courses in the College of Business Administration. Courses outside the college as well as courses listed in the Graduate Catalog numbered below 500 may be included as an elective only with written prior permission via formal petition to the MBA Program Office.

On page 101 of the 2005-2006 Graduate Catalog, add Secondary Concentration – Innovation and Entrepreneurship (add between Concentration and Electives and Transfer Credits)

Secondary Concentration - Innovation and Entrepreneurship

Innovation and Entrepreneurship is a secondary concentration (9 hours) that must be taken in conjunction with one of the other MBA concentrations. The secondary concentration makes the MBA concentration/electives block 18 total credit hours. It provides the skills to launch a new business and to function successfully within an established corporation that employs entrepreneurial management strategies. It teaches how to assess entrepreneurial opportunities, apply strategic consultative thinking to problem solving, assess the commercial potential of an idea or innovation, develop strategic, business and financial plans, develop effective presentations, and serve as an effective member of an entrepreneurial/innovation team. Minimum course requirements are Business Administration 520, plus two from Business Administration 595, Finance 551, Management 551.

☉ ADD SPORT STUDIES MAJOR (SPORT MANAGEMENT CONCENTRATION) TO DUAL MS-MBA

DUAL MS-MBA

The College Business Administration and the College of Education, Health, and Human Sciences offer an integrated program leading to the conferral of the Master of Science with a major in sport studies (concentration in sport management) and the Master of Business Administration.

Increasingly, sports and sports-related companies are represented by significant business enterprises. Success in these enterprises requires the application of business fundamentals, analytical techniques, and management skills within the specific context of the sports industry. The objective of the dual degree program is to train individuals in sport management and business management to integrate both sport and management and to prepare them to undertake leadership roles in this growing, dynamic, and competitive industry.

Admission

Applications are accepted for fall semester only. Applicants for the MS-MBA program must make separate application to, and be competitively and independently accepted by, Graduate Admissions for the Master of Business Administration program and the Master of Science for Sport Studies.

Students will initially apply for the MBA program, indicating on their application the intent to pursue the dual MS-MBA program. Students accepted for both the MBA and MS programs will be assigned to Dual Program Committee advisors, who will be responsible for course approval and supervision of the students' progress through the dual program.

Applications by U.S. citizens and permanent residents received after the application deadline (March 1) will be considered as space allows. Additional information is required and different application dates are established by Graduate Admissions for international students.

Requirements

The MBA curriculum consists of 31 hours of common coursework in the College of Business Administration. Dual degree candidates enrolled in sport management are required to take 30 hours of graduate level Sport Management courses and internship.

The dual degree candidate must satisfy the curriculum and graduation requirements of the sport management major and the College of Business Administration. Students withdrawing from the dual degree program before completing both degrees will not receive credit toward graduation in either degree program for courses taken in the other degree program, except as such courses qualify for credit without regard to the dual degree program.

The MBA and MS degrees will be awarded upon successful completion of the requirements of the dual program.

Curriculum for Dual MS-MBA • Sport Studies Major • Sport Management Concentration**August—First Year**

Business Administration 511	MBA Core I	3
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Fall—First Year

Business Administration 501	MBA Career Development	1
Business Administration 512	MBA Core II	15

Spring

Business Administration 513	MBA Core III	9
MBA Elective	Recommend: Marketing 520	3
Sport Management 554	Readings in Sport Management	3

Summer

Sport Management 595	Sport Management Internship	6
Sport Management 501	Sport Management Special Projects	3

Fall—Second Year

Sport Management 544	Leadership Theories in Sport	3
Sport Management 511	Administration and Supervision in Sport	3
Sport Management 532	Research Techniques in Sport	3

Spring—Second Year

Sport Management 530	Sport and Media Issues	3
Sport Management 512	Legal Concepts in Sport	3
Sport Management 535	Social and Ethical Issues in Sport	3

Total 61

Ⓞ DROP MANAGEMENT CONCENTRATION (BUSINESS ADMINISTRATION MAJOR - PHD)

REMOVE CATALOG TEXT

On page 111 of the 2005-2006 Graduate Catalog, remove

Doctor of Philosophy
Business Administration Major Management Concentration

Minimum course requirements are

- For operations management – 541 and 542; two semesters of 640 (may be repeated for credit); one additional semester of approved doctoral seminar work
- For strategic management – 610, 611, 612, 613

Environmental Policy Minor

The department participates in a program designed to give graduate students an opportunity to develop an interdisciplinary specialization in environmental policy. See Department of Economics for program description.

COLLEGE OF COMMUNICATION AND INFORMATION

All changes effective Fall 2006

The following changes to the graduate catalog copy are all related to the ongoing reorganization of graduate programs in the College of Communication and Information subsequent to the merger and reorganization of units. No individual rationale is given for individual changes – this single rationale applies to all. The changes are not expected to impact other academic units in any way. While there are quite a few courses added, there are also many being dropped. We do not anticipate any financial impact from these changes.

I. COURSE CHANGES

(248) Communication and Information

ADD

610 Perspectives on Communication and Information Knowledge and Research I (6) Examination of the paradigmatic underpinnings that drive research in positivistic traditions. Integrative study of the role of theory, various theoretical traditions and methods within positivistic communication and information research. Emphasis on classic and contemporary literature and on conducting primary research across the various fields represented by the college.
Comment(s): Admission to program or consent of instructor required.

615 Perspectives on Communication and Information Knowledge and Research II (6) Examination of the paradigmatic underpinnings that drive research in interpretivistic traditions. Integrative study of the role of theory, various theoretical traditions and methods within interpretivistic communication and information research. Emphasis on classic and contemporary literature and on conducting primary research across the various fields represented by the college.
(DE) Prerequisite(s): 610.
Registration Permission: consent of instructor.

630 Theory and Literature in Communication and Information Disciplines (3) Topics covering specific areas in communication and information. Theory intensive.
Repeatability: May be repeated. Maximum 12 hours.
(DE) Prerequisite(s): 610 and 615.
Registration Permission: consent of instructor.

REVISE DESCRIPTION AND CREDIT HOURS AND ADD REPEATABILITY

620 Seminar in Communication and Information Education (1-3) Topics examining the role and scope of communication and information teaching and professional development.
Repeatability: May be repeated. Maximum 4 hours.

REVISE TITLE, DESCRIPTION; REMOVE COMMENT; ADD (DE) PREREQUISITES; REGISTRATION PERMISSION AND REPEATABILITY

640 Advanced Communication and Information Research Methods (3) Topics in communication and information research design, methodology, analysis. Methods intensive.
Repeatability: May be repeated. Maximum 12 hours.
(DE) Prerequisite(s): 610 and 615.
Registration Permission: consent of instructor.

DROP

612 Fundamentals of Communication Research (3)

622 Quantitative Research (3)

632 Mass Communication History and Historiography (3)

641 Communication and Information Theory II (3)

642 Qualitative Research (3)

652 Mass Communication Law and Legal Research (3)

SCHOOL OF JOURNALISM AND ELECTRONIC MEDIA**(592) Journalism and Electronic Media**

ADD

503 Workshop in Journalism across the Media I (3) Techniques of writing, reporting, and editing for print and Web. Also includes graphics, layout, and photography. Overview of the history, technology, and economics of newspapers, magazines, and the Internet. Consideration of the First Amendment.

Credit Restriction: Cannot be counted toward the number of hours required for the Master of Science degree.

504 Workshop in Journalism across the Media II (3) Techniques of writing, reporting, and editing for electronic media. Also includes video production. Overview of the history, technology, and economics of cable, broadcasting, and satellite. Consideration of the impact of rules, regulations, and policies of the Federal Communications Commission. Comparison of techniques in print, Web, and electronic media. Creating material for one medium and using it in another.

Credit Restriction: Cannot be counted toward the number of hours required for the Master of Science degree.

515 Advanced Reporting across the Media (3) Developing good story ideas, researching them, and translating them into suitable material for news in print, broadcasting, cable, and the Internet. Using video and graphics to reinforce the story concept. Considering the needs of the media and the audience. Theories of how content changes as the medium changes.

530 Mass Communication Law in a Democratic Society (3) Advanced study of legal issues in journalism across the media. Constitutional interpretation of First Amendment rights. The evolution of the theory of press freedom in the United States. Principles and case studies in communication law. Analysis of court opinions and regulatory policies. Discussion of legal research. Examination of the impact of globalization and new technologies on the traditional values of the First Amendment.

522 Seminar in Journalism Issues and Theory (3) Discussion of the important issues in journalism from a variety of theoretical viewpoints. Study of the basic literature on theory involving journalism (print, broadcasting, cable, and the Internet) and its application to current problems.

554 Seminar in Mass Media and Health and Risk (3) Mass communication and health communication theories examined as they relate to intended and unintended effects on individual behavior and on public health policy. Setting of media's agenda on health and risk. Interaction of scientists, journalists, and public on scientific, technological, and medical questions.

Registration permission: consent of instructor.

DROP

535 Publications Management (3)**551 Seminar in Science, Society, and the Mass Media (3)****552 Seminar in Health Communication (3)****553 Seminar in Risk Communications (3)****565 Electronic Media Law and Regulation (3)****570 Advanced Audience Media Analysis (3)****580 Seminar in Visual Communication (3)****585 Advanced Electronic Media Management (3)****598 Internship (3)**

DROP FOR GRADUATE CREDIT

400 Mass Communication Law and Ethics (3)**440 Corporate Video (3)****444 Journalism as Literature (3)****455 Issues in Science Communication (3)****456 Science Writing as Literature (3)**

457 Media and Society (3)

465 Media and Diversity (3)

467 Mass Communication History (3)

480 Broadcast and Cable Programming (3)

REVISE TITLE AND DESCRIPTION

510 International Journalism (3) Studies the development and impact of international and trans-national media systems on journalism today. Examines the implications for reporters, editors, and publishers in print, broadcasting, cable, satellite, and the Internet as well as the effects on audiences, societies, global cultures, and political economies. Comparative analysis of media, media practices, and flow of information throughout the world.

II. PROGRAM CHANGES

Ⓒ DROP COMMUNICATION MAJOR AND CONCENTRATIONS (MS)

Advertising
Communication Studies
Converging Media
Electronic Media
Journalism
Public Relations
Science Communication

Ⓒ ADD COMMUNICATION AND INFORMATION MAJOR (MS) AND CONCENTRATIONS

Advertising
Communication Studies
Journalism and Electronic Media
Public Relations

Ⓒ DROP CONCENTRATIONS (COMMUNICATION AND INFORMATION MAJOR – PHD)

Electronic Media
Journalism
Science Communication

Ⓒ ADD CONCENTRATION (COMMUNICATION AND INFORMATION MAJOR – PHD)

Journalism and Electronic Media

REVISE CATALOG TEXT TO REFLECT THE ABOVE AND CHANGE THE APPLICATION DEADLINE TO FEBRUARY 1

COLLEGE OF COMMUNICATION AND INFORMATION

Gregory D. Reed, Interim Dean
Sally J. McMillan, Interim Associate Dean for Academics
<http://www.cci.utk.edu/>

Schools

Advertising and Public Relations
Communication Studies
Information Sciences
Journalism and Electronic Media

Facilities for Research and Service

Center for Information Studies (CIS)
Communications Research Center (CRC)
Science Communication Initiative (SCI)

The College of Communication and Information fosters among students and the larger community a sense of the legal and ethical responsibilities of access to information and the exercise of expression in a democratic society. Additionally, the college serves the professional goals of preparing students for careers in the communication and information professions.

The college includes four schools: School of Advertising and Public Relations, School of Communication Studies, School of Information Sciences, and School of Journalism and Electronic Media. These programs came together under a single College of Communication and Information in 2002. The college offers two master's and one doctoral degree.

The Master of Science with a major in communication and information is a college-wide degree offering multiple concentrations that typically are housed within one of the schools. These concentrations have a core curriculum that focuses on theory and research. Students then take coursework supporting the concentration as well as electives. They also engage in a capstone experience. Concentrations in advertising, journalism and electronic media, and public relations are accredited by the Accrediting Council on Education in Journalism and Mass Communication.

The Master of Science with a major in information sciences is designed primarily for librarians and information professionals. That program is coordinated by the School of Information Sciences and involves both on-campus and distance education coursework. This program is accredited by the American Library Association and the National Council for Accreditation of Teacher Education. More details on this degree are provided in the listing for the School of Information Sciences, which follows information about college-wide degrees.

The Doctor of Philosophy with a major in communication and information builds on core courses that focus on knowledge creation across the disciplines represented by the college. Additional required coursework in a primary and cognate area will be selected by the student and his/her program committee. Communication and information is available as a secondary area for students majoring in other departments.

Academic Standards

A student in the College of Communication and Information whose graduate grade point average, not including incomplete grades, is below 3.0 at any time after the end of 12 hours of graduate credit will be placed on probation. A student on probation will be dropped from the program unless his or her cumulative graduate grade point average is 3.0 or higher at the end of the probationary period. The probationary period is defined as the next 12 semester hours of graduate coursework attempted that is specified in the student's degree program. Exceptions to this policy may be made only with the approval of the Associate Dean for Academics of the College of Communication and Information on the recommendation of the student's faculty committee.

Admission and Assistance for College-wide Degrees

Applicants must meet admission requirements of the Graduate Council. In addition, they must complete the Graduate Record Examination, rating forms, and application forms as required by the College of Communication and Information. All application materials are screened by an admissions committee authorized by the faculty of the College of Communication and Information.

New students normally begin classes in the fall semester. Applicants for both admission and financial aid are due on February 1.

Graduate assistantships are available for students in college-wide programs. Assistantships may be for teaching or research. Assistantships are highly competitive and carry a waiver of tuition and fees as well as a stipend and require that recipients work 10-20 hours per week in the college.

For application forms and other information about college-wide graduate programs in Communication and Information, write to Associate Dean for Academics, College of Communication and Information, 420 Communications Building, the University of Tennessee, Knoxville, Tennessee 37996-0347 or go to <http://www.cci.utk.edu/gradstudies>.

REVISE MASTER OF SCIENCE REQUIREMENTS

On page 118 of the 2005-2006 Graduate Catalog, remove

Public Relations 530 from research methods courses (first bullet under Requirements)

Remove references to an internship in the Requirements section.

REVISE CATALOG TEXT TO REFLECT THE ABOVE

MASTER OF SCIENCE

Communication and Information Major

The Master of Science with a major in Communication and Information is intended for students who desire careers related to a variety of communication, information, or media fields, and those who seek a deeper understanding of the role of communication and information in organizations, media, and society. Both thesis and non-thesis options are available. See catalog listings for the School of Advertising and Public Relations, School of Communication Studies, and the School of Journalism and Electronic Media for information about concentrations and the courses offered.

Admission

A baccalaureate degree in communication, information sciences, or a related field is recommended. Admission is possible with other baccalaureate degrees. However, all applicants without the appropriate background may be required to take up to 18 semester hours of prerequisite and corequisite courses as determined by the school in which the student is enrolled. Master's students who have had no courses in their major area of concentration may expect to spend four or more full-time semesters in the program.

Minimum requirements normally include a 3.0 (4.0 system) grade point average in undergraduate studies and scores at or above the fiftieth percentile in verbal, quantitative, and analytical aptitude on the Graduate Record Examination.

Requirements

The MS program combines a cross-disciplinary core in theory and methods with a concentrated set of courses in a primary area and electives from outside the concentration. Both the thesis and non-thesis options require a minimum of 34 hours of approved graduate work.

- Seven hours of core courses—Communication and Information 501 (Orientation, one hour), Communication and Information 540 (Theory, three hours), and one of the following research methods courses (Advertising 530, Communication Studies 505, Information Science 540, Journalism and Electronic Media 512), to be taken during the first two semesters of the student's program, except with the written approval of the associate dean of academics of the college.
- Fifteen hours within a concentration. Concentrations are typically housed within one of the academic units. Students may also construct their own coherent set of courses for a concentration, with the approval of the associate dean for academics for the college. At least six hours of the concentration must be at the 500 level or above.
- Six hours for the thesis option, or nine hours for the non-thesis option, of approved electives.
- All students must take courses from at least two of the schools in the College of Communication and Information. The outside course may be included in the core, concentration, or electives.
- Six hours of thesis work, or a three-hour project.

Additional hours may be required for those who do not have academic prerequisites.

Students interested in subsequent entry into a doctoral program are advised to pursue the thesis option and to take additional courses in communication theory and research, subject to advisor's approval. After completion of the formal program of coursework and research for the thesis option, the student must pass an oral examination conducted by his/her graduate committee.

Students interested in pursuing careers as communication and information practitioners are advised to complete a project. This non-thesis option requires a written comprehensive examination and an oral defense of the project.

REVISE COMMUNICATION AND INFORMATION MAJOR (PHD)

Add statement.

Students must begin in the fall semester and that the first fall and first spring semesters must be spent in residence as a full-time student.

On page 119 of the 2005-2006 Graduate Catalog, add the following statements to "Requirements" section for the doctoral program.

Within the primary concentration and cognate areas, a total of six credit hours must be from theory-intensive courses and six credit hours must be from methods-intensive classes. Courses both inside and outside the college (including graduate-level courses in the schools) may be identified as theory- and/or method-intensive. A list of eligible courses will be provided for students. Students may also submit courses to their program committee for consideration as theory- and/or method-intensive.

The program committee is assembled in the first semester of the student's studies. A program plan must be submitted no later than the end of the second semester of study. The program plan may be subsequently revised as needed.

Revise total hours from 87 to 61.

Remove the option of applying up to 18 hours of credit from the master's degree toward the PhD.

Revise core courses to (16-18 hours): 610, 615, 620, and a minimum of three hours of statistics.

Reduce hours in primary area from 15 to 12.

Reduce hours in secondary area from 12 to 9.

Eliminate 9 hours of electives.

REVISE CATALOG TEXT TO REFLECT THE ABOVE

DOCTOR OF PHILOSOPHY

Communication and Information Major

The PhD with a major in Communication and Information is intended to prepare scholars for teaching, research, administration, and service in the fields of communication and information. The goal of the PhD program is to prepare graduates for positions in research-intensive institutions. This preparation will also enable them to work at other types of educational institutions and industry positions. Doctoral students develop publishable research in their coursework, and provide evidence of publishable research prior to taking comprehensive exams. Graduates are expected to be competent in using at least one research method and should be literate in statistics. The program includes training in the foundational origins and contemporary literature of communication and information theories and professions. The

program offers the opportunity for students to learn to be good teachers and to participate in service and outreach activities.

The program is interdisciplinary, consisting of a required core curriculum and primary and cognate areas of study. Core courses begin in the fall semester. The first fall and spring semesters must be spent in residence (i.e., enrolled as a full-time student). Attendance at a fall orientation session is required.

Admission

The master's degree is required for entry into the doctoral program. Students lacking academic or professional experience in communication and information may be required to take prerequisite courses.

The following are normally minimal requirements for admission to full potential candidate status.

- A 3.0 (4.0 system) grade point average in undergraduate studies, and 3.5 for graduate work.
- At or above the fiftieth percentile in verbal, quantitative and analytical aptitude on the Graduate Record Examination.
- Recommendation letters from at least three former teachers or professional colleagues.
- A statement of the applicant's goals and reasons for pursuing the doctorate. Personal interviews with members of the PhD Admissions Committee are recommended and may be required. Professional experience in some field of communication and/or information is a highly desirable criterion for admission.
- For students whose native language is not English and who have not earned an earlier degree at an American college or university, the Test of English as a Foreign Language is required. Students should show mastery of the English language.

Requirements

A minimum of 61 hours of approved graduate work is required for the PhD.

- Sixteen to eighteen hours of core courses—Communication and Information 610 and 615; three hours of statistics; and one- to three-hours of Communication and Information 620.
- Twelve hours in a primary concentration as defined by the student and his/her program committee.
- Nine hours in a cognate area as defined by the student and his/her program committee.
- Twenty-four hours of dissertation.

Within the primary concentration and cognate areas, a total of six credit hours must be from theory-intensive courses and six credit hours must be from methods-intensive classes. Courses both inside and outside the college (including graduate-level courses in the schools) may be identified as theory- and/or method-intensive. A list of eligible courses will be provided for students. Students may also submit courses to their program committee for consideration as theory- and/or method-intensive.

All courses require the approval of the student's program committee. The program committee is assembled in the first semester of the student's studies. A program plan must be submitted no later than the end of the second semester of study. The program plan may be subsequently revised as needed.

Admission to candidacy must be attained at least two semesters prior to graduation and requires successful completion of a written comprehensive examination.

Each doctoral student's progress will be reviewed annually by the Graduate Committee of the College of Communication and Information in conjunction with the program committee chair. Results will be reported to the student by his/her program committee chair, who will convey the graduate committee's recommendation concerning the student's status in the program and suggestions for improvement in performance.

Planned course offerings in the College of Communication and Information for a full calendar year are available the preceding November. This information is available from the Graduate Studies Office, 420 Communications Building, 865-974-6651. Also see courses listed under the following academic disciplines—advertising, communication studies, information sciences, journalism and electronic media, and public relations.

COMPARATIVE AND EXPERIMENTAL MEDICINE (INTERCOLLEGIATE)

All changes effective Fall 2006

I. COURSE CHANGES

(262) Comparative and Experimental Medicine – Graduate School of Medicine

ADD

601 Journal Club in Comparative and Experimental Medicine (1) Readings and discussions based on current literature.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 12 hours.

REVISE TITLE

541 Cellular and Molecular Basis of Disease (4)

REVISE REPETITION

611 Advanced Topics in Medical Science (1-3)

Repeatability: May be repeated. Maximum 12 hours.

(261) Comparative and Experimental Medicine – Veterinary Medicine

ADD

611 Journal Club in Emerging Infectious Diseases (1) Readings and discussions based on current literature.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 12 hours.

612 Journal Club in Pathobiology (1) Readings and discussions based on current literature.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 12 hours.

613 Journal Club in Large Animal Clinical Sciences (1) Readings and discussions based on current literature.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 12 hours.

Comment(s): DVM or equivalent degree

614 Journal Club in Small Animal Clinical Sciences (1) Readings and discussions based on current literature.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 12 hours.

Comment(s): DVM or equivalent degree.

REVISE DESCRIPTION

608 Descriptive and Applied Epidemiology (3) Principles of epidemiology as well as historic and modern applications to human and animal diseases. Host-agent relationships, measurement of disease frequency, disease monitoring and control in human and animal populations, field investigations, animal health economics and production.

II. PROGRAM CHANGES

Ⓞ DROP THE TWO CONCENTRATIONS—BASIC SCIENCE CONCENTRATION AND APPLIED SCIENCE CONCENTRATION (COMPARATIVE AND EXPERIMENTAL MEDICINE MAJOR – MS AND PHD)

REVISE COMPARATIVE AND EXPERIMENTAL MEDICINE MAJOR (MS)

On page 191 of the 2005-2006 Graduate Catalog, revise to

Requirements

Students must complete a minimum of 24 semester hours of coursework and 6 hours of Thesis 500. Comparative and Experimental Medicine 541 (Cellular and Molecular Basis of Disease) and 608 (Descriptive and Applied Epidemiology) are required, as are 4 hours of 600-level graduate journal clubs. In addition, students must take at least 3 hours of 500- or 600-level statistics and a minimum of 8 hours of coursework in a specified discipline. Areas of emphasis may include hematology, oncology, pathology, pharmacology, toxicology, immunology, genetics, infectious disease, epidemiology, metabolism, or other areas of medicine. Exceptions to accommodate students with specific interests must be approved by the Joint Graduate Coordinating Committee after application, in writing, to the director.

The graduate committee (at least 3 members) is chosen before the end of the second term and must include at least one member from the College of Veterinary Medicine and at least one member from the Graduate School of Medicine. If a minor is declared, one member must be from the minor discipline. A final oral examination must be passed at the completion of the program.

REVISE COMPARATIVE AND EXPERIMENTAL MEDICINE MAJOR (PHD)

On page 191 of the 2005-2006 Graduate Catalog, revise to

Requirements

Students with professional degrees (e.g., MD, DDS, DVM) or master's degrees in a program-related biomedical science must complete at least 24 hours of coursework and 24 hours of Dissertation 600. Others must complete a minimum of 48 hours of coursework and 24 hours of Dissertation 600.

Comparative and Experimental Medicine 541 (Cellular and Molecular Basis of Disease) and 608 (Descriptive and Applied Epidemiology) are required, as are 6 hours of 600-level graduate journal clubs. In addition, students must take at least 3 hours of 500- or 600-level statistics and a minimum of 8 hours of coursework in a specified discipline. Areas of emphasis may include hematology, oncology, pathology, pharmacology, toxicology, immunology, genetics, infectious disease, epidemiology, metabolism, or other areas of medicine. Exceptions to accommodate students with specific interests must be approved by the Joint Graduate Coordinating Committee after application, in writing, to the director. The doctoral committee is chosen during the first year. At least one member must be from the College of Veterinary Medicine and at least one member from the Graduate School of Medicine.

A comprehensive examination must be passed before the end of the third year of the program. In addition, students must prepare and defend a prospectus outlining their proposed research projects before the end of their third year in the program. Exceptions to these requirements are provided for medical residents pursuing doctoral degrees who must successfully complete the comprehensive examination and research prospectus before the end of their fourth year in the program.

COLLEGE OF EDUCATION, HEALTH, & HUMAN SCIENCES**All changes effective Fall 2006 unless otherwise noted ***

INFORMATIONAL ITEMS—DEPARTMENTAL NAME CHANGES

Department of Retail, Hospitality, and Tourism Management

Formerly: Department of Consumer Services Management

Department of Instructional Technology, Health, and Educational Studies

Formerly: Department of Instructional Technology and Educational Studies

I. COURSE CHANGES**DEPARTMENT OF CHILD AND FAMILY STUDIES****(245) Child and Family Studies**

REPEATABILITY CLARIFICATION

574 Analysis of Teaching for Professional Development (1-2)*Repeatability: Not repeatable. May be taken once for 1-2 hours.***591 Clinical Studies (1-4)***Repeatability: Not repeatable. May be taken once for 1-4 hours.***DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND COUNSELING****(255) Counselor Education**

REPEATABILITY CLARIFICATION

593 Independent Study (1-3)*Repeatability: May be repeated. Maximum 15 hours.***693 Independent Study (1-3)***Repeatability: May be repeated. Maximum 15 hours.***(310) Educational Psychology**

DROP

540 Seminar in School Psychology (3)**541 Psychoeducational Assessment (3)****542 Practicum in Psychoeducational Assessment (3)****545 Psychoeducational Consultation (3)****546 Practicum in Consultation (3)****549 Internship in School Psychology (1-6)****649 Advanced Internship in School Psychology (1-9)****650 Professional Practice in School Psychology (1)****690 Psychopathology of Childhood (3)**

REVISE TITLE

525 Adult Learning (3)

REVISE TITLE AND DESCRIPTION

530 Methods of Action Research (3) Models of action research and applications in professional practice.

REVISE TO REMOVE (DE) PREREQUISITES

524 Continuing Professional Education (3)

REVISE TO ADD REGISTRATION PERMISSION

620 Seminar in Adult Education (3)

Registration Permission: consent of instructor.

621 Advanced Seminar in Program Planning (3)

Registration Permission: consent of instructor.

622 Advanced Seminar in Adult Development and Learning (3)

Registration Permission: consent of instructor.

677 Advanced Educational Statistics (3)

Registration Permission: consent of instructor.

REVISE COMMENT

640 Seminar in Applied Educational Psychology (2)

Comment(s): Admission to PhD, education major, applied educational psychology specialization required.

REPEATABILITY CLARIFICATION

593 Independent Study (1-3)

Repeatability: May be repeated. Maximum 15 hours.

693 Independent Study (1-3)

Repeatability: May be repeated. Maximum 15 hours.

(461) Higher Education Administration

*** Effective: Spring 2006**

APPROVAL OF NON-STANDARD FORMAT COURSES

615 Research Design (3) Primary is Educational Administration

514 Leadership Themes in Literature (3)

Projected Dates for Session: Five Saturdays 8:00 a.m. - 4:00 p.m. in the fall term and five Saturdays 8:00 a.m. - 4:00 p.m. in spring term.

Contact Time: 2250 contact minutes in each term (Fall and Spring).

▶ DROP ACADEMIC DISCIPLINE AND COURSES

(857) Rehabilitation Counselor Education

530 Orientation to Rehabilitation (3)

532 Caseload Management in Rehabilitation (3)

533 Job Analysis, Development, and Placement (3)

537 Vocational Evaluation: Clinical Methods (3)

538 Disability Management (3)

541 Psychosocial Aspects of Disability (3)

543 Medical Aspects of Disability (3)

545 The Rehabilitation Interview (3)

547 Practicum in Rehabilitation (3)

549 Internship in Rehabilitation Counseling (12)

579 Special Topics (1-3)**592 Assistive Technology in Rehabilitation (3)****593 Independent Study (1-3)**

▶ ADD ACADEMIC DISCIPLINE AND COURSES

(852) Rehabilitation Counseling

530 Orientation to Rehabilitation (3) History, philosophy, legal and economic bases, current issues, and practices in public and private rehabilitation programs. Qualifications of service providers. Assessment, plan development, and provision of services to people who have disabilities and vocational handicaps. Identification, mobilization, and utilization of rehabilitation resources.

532 Caseload Management in Rehabilitation (3) Techniques and procedures involved in management of caseloads in Federal-State vocational rehabilitation agencies, private rehabilitation companies, and public or private rehabilitation facilities. Analysis of appropriate industrial management models related to rehabilitation programs.

533 Job Analysis, Development, and Placement (3) Determining employment-readiness of people with disabilities, identifying appropriate jobs for selected clients, and assisting clients in seeking, obtaining, and retaining employment. Job analysis, job modification and re-engineering, marketing, and employer-servicing techniques; legislation impacting job placement; supported work; and use of occupational information.

537 Vocational Evaluation: Clinical Methods (3) Process, principles, and techniques used to assist individuals in determining and understanding their own work behavior and vocational potential. Selection and use of occupational exploration programs and work samples; application of situational tasks, job tryouts, and simulated work experiences in vocational evaluation. Clinical interpretation of data through formal staff conference, vocational counseling, and report writing.

538 Disability Management (3) Return-to-work issues in disability management programs: early intervention, quality services, and cost containment; standards and procedures for rehabilitation counselors/case managers in private sector rehabilitation.

541 Psychosocial Aspects of Disability (3) Psychosocial impact of disability on person and family. Reaction to loss, coping with disability, and societal rehabilitation.

543 Medical Aspects of Disability (3) Etiology and clinical symptoms related to disabling conditions served by special education and rehabilitation personnel. Restrictive measures to eliminate or minimize resulting handicaps. Skills necessary to communicate with lay and professional persons.

545 The Rehabilitation Interview (3) Interview as used in assessment and planning with people who have disabilities and vocational handicaps.

547 Practicum in Rehabilitation (3) Supervised experience in area of rehabilitation; application of concepts, principles, and skills.

Registration Permission: consent of instructor.

549 Internship in Rehabilitation Counseling (12) Supervised practice in rehabilitation counseling. Full time clinical experience for second-year students. Requires 600 clock-hours.

579 Special Topics (1-3)

Grading Restriction: Satisfactory/No Credit or letter grade.

Repeatability: May be repeated. Maximum 9 hours.

Comment(s): Admission to graduate program required.

591 Research Project in Rehabilitation Counseling (3) Explore and research rehabilitation counseling issues directly related to employment, counselor functions, and/or treatment variables.

592 Assistive Technology in Rehabilitation (3) Technology as applied to needs of school age and post-secondary age students/clients. Delivery of assistive technology services; software programs and assistive devices; delivery systems, interdisciplinary evaluation/planning, and funding issues.

593 Independent Study (1-3)

Grading Restriction: Satisfactory/No Credit or letter grade.

Repeatability: May be repeated. Maximum 6 hours.

Current Courses	Fall 2006
Rehabilitation Counselor Education (857)	Rehabilitation Counseling (852)
Rehabilitation Counselor Education 530	Rehabilitation Counseling 530
Rehabilitation Counselor Education 532	Rehabilitation Counseling 532
Rehabilitation Counselor Education 533	Rehabilitation Counseling 533
Rehabilitation Counselor Education 537	Rehabilitation Counseling 537
Rehabilitation Counselor Education 538	Rehabilitation Counseling 538
Rehabilitation Counselor Education 541	Rehabilitation Counseling 541
Rehabilitation Counselor Education 543	Rehabilitation Counseling 543
Rehabilitation Counselor Education 545	Rehabilitation Counseling 545
Rehabilitation Counselor Education 547	Rehabilitation Counseling 547
Rehabilitation Counselor Education 549	Rehabilitation Counseling 549
Rehabilitation Counselor Education 579	Rehabilitation Counseling 579
Rehabilitation Counselor Education 592	Rehabilitation Counseling 592
Rehabilitation Counselor Education 593	Rehabilitation Counseling 593

▶ ADD ACADEMIC DISCIPLINE AND COURSES

(901) School Psychology

540 Seminar in School Psychology (3) Essentials of theory and practice of school psychology as professional specialty. Consideration of history and current issues in school psychology.

541 Psychoeducational Assessment (3) Direct, psychometric and naturalistic assessment methods in learning environments.

Repeatability: May be repeated. Maximum 6 hours.

(DE) Prerequisite(s): Counselor Education 525 or equivalent.

Comment(s): Requires admission to school psychology major or consent of instructor.

542 Practicum in Psychoeducational Assessment (3) Application of assessment skills to clients in learning environments.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 6 hours.

(DE) Corequisite(s): 541.

Comment(s): Requires Admission to school psychology major or consent of instructor.

545 Psychoeducational Consultation (3) Use of two and three-person models of consultation in educational and therapeutic settings based on behavioral, ecological, social learning and cognitive-behavioral theories.

546 Practicum in Consultation and Intervention (3) Application of consulting and intervention skills to educational settings.

Grading Restriction: Satisfactory/No Credit grading only.

(DE) Prerequisite(s): 545.

Comment(s): Requires admission to the school psychology major or consent of instructor.

549 Internship in School Psychology (1-6) Supervised employment in unit approved school psychology internship sites.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 12 hours.

Comment(s): Requires admission to school psychology major.

Registration Permission: consent of instructor.

649 Advanced Internship in School Psychology (1-9) Supervised experience as school psychologist in unit-approved internship site for doctoral level students.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 9 hours.

Comment(s): Admission to doctoral school psychology concentration required.

Registration Permission: consent of instructor.

650 Professional Practice in School Psychology (1) Field setting to facilitate academic, social and interpersonal development of children and adults. School and mental health settings for intervention, consultation, prevention, and assessment services.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 9 hours.

690 Psychopathology of Childhood (3) Descriptive and critical study of psychopathology of childhood and of systems of nomenclature applied to individuals with mental disorders: nomenclature provided in State Department of Education's Student Evaluation Manual and Diagnostic and Statistical Manual of Mental Disorders of American Psychiatric Association.

Current Courses (310) Educational Psychology	Fall 2006 – School Psychology (901)
Educational Psychology 540	School Psychology 540
Educational Psychology 541	School Psychology 541
Educational Psychology 542	School Psychology 542
Educational Psychology 545	School Psychology 545
Educational Psychology 546	School Psychology 546
Educational Psychology 549	School Psychology 549
Educational Psychology 649	School Psychology 649
Educational Psychology 650	School Psychology 650
Educational Psychology 690	School Psychology 690

DEPARTMENT OF EXERCISE, SPORT, AND LEISURE STUDIES

(274) Dance

REPEATABILITY CLARIFICATION

593 Independent Study (1-3)

Repeatability: May be repeated. Maximum 12 hours.

(347) Exercise Science

DROP

625 Mortality and Survival (3)

581 Biomechanics Instrumentation (1)

REPEATABILITY CLARIFICATION

541 Special Topics (1-3)

Repeatability: May be repeated. Maximum 6 hours.

593 Independent Study (1-3)

Repeatability: May be repeated. Maximum 6 hours.

622 Directed Independent Research (3-6)

Repeatability: May be repeated. Maximum 6 hours.

661 Seminar in Exercise and Applied Physiology (1-3)

Repeatability: May be repeated. Maximum 6 hours.

664 Research Participation in Exercise Science (1-6)

Repeatability: May be repeated. Maximum 6 hours.

681 Practicum (1-3)

Repeatability: May be repeated. Maximum 6 hours.

693 Independent Study (1-3)

Repeatability: May be repeated. Maximum 6 hours.

REVISE DESCRIPTION

480 Physiology of Exercise (3) Lecture and laboratory class dealing with functions of the body in muscular work. Topics include physiological aspects of fatigue, training, and adaptation to environment. (*Same as Biochemistry and Cellular and Molecular Biology 480.*)

(853) Recreation and Leisure Studies

ADD

511 Perspectives and Trends in Leisure Studies and Services (3) Basic role of leisure delivery systems in today's society, scope of leisure behavior, developmental features of leisure and recreation. Current trends, problems, laws, and issues affected by and/or affecting delivery of leisure services.

Registration Permission: consent of instructor.

DROP SECONDARY CROSS-LISTED COURSE

510 Trends and Issues in Service Management (3)

Current Course	Fall 2006
Recreation and Leisure Studies 510	Recreation and Leisure Studies 511

REPEATABILITY CLARIFICATION

590 Graduate Internship (3-6)

Repeatability: May be repeated. Maximum 6 hours.

REVISE TITLE AND DESCRIPTION

415 Development of Recreation, Leisure, and Athletic Facilities (3) Principles of designing, planning, equipping, and operating various facilities. Elements of risk management and safety are incorporated into the design process.

REVISE DESCRIPTION

430 Organization and Administration of Leisure Services (3) Principles of administration applied to provision of leisure services offered by public, private, non-profit, and/or commercial enterprises. Organizational structures, human resource management, diversity, evaluation, legal authority, introduction to budgeting and fiscal procedures, professional responsibility, and career management.

REVISE TO DROP (DE) PREREQUISITES

520 Program Design and Evaluation in Therapeutic Recreation (3)**522 Clinical Aspects in Therapeutic Recreation (3)**

REVISE TO ADD GRADING RESTRICTION

590 Graduate Internship (3-6)

Grading Restriction: Satisfactory/No Credit grading only.

REVISE TO ADD REGISTRATION RESTRICTION

502 Registration for Use of Facilities (1-15)

Registration Restriction: recreation and leisure studies major.

REVISE TITLE

450 Special Topics in Recreation and Leisure Studies (1-6)**(957) Sport Management**

ADD

560 Sport Governance (3) Principles of organizational governance theories as applied to sport organizations. Review of history, mission, and structure, administrative and legislative processes of amateur and professional governing bodies in sport.

REPEATABILITY CLARIFICATION

580 Special Topics (1-3)

Repeatability: May be repeated. Maximum 6 hours.

593 Independent Study (1-3)

Repeatability: May be repeated. Maximum 6 hours.

(959) Sport Studies

REVISE TO ADD COMMENT

505 History of Olympics: Ancient and Modern (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

514 Advanced Philosophy of Sport (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

515 Social Theories of Sport (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

533 Psychology of Sport (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

534 Motor Behavior and Skill Acquisition (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

535 Health and Exercise Psychology (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

536 Expert Performance in Sports (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

538 Professional Practice Issues in Sport Studies (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

539 Research Development in Sport Psychology: Idea Formation to Data Collection (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

540 Research Development in Sport Psychology: Data Analysis to Manuscript Submission (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

542 Sociological Aspects of Sport (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

595 Special Topics (1-3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

633 Advanced Sport Psychology (3)

Comment(s): Requires admission to the sport studies major or consent of instructor.

REVISE TO ADD COMMENT AND CLARIFY REPEATABILITY

681 Practicum (1-3)

Repeatability: May be repeated. Maximum 6 hours.

Comment(s): Requires admission to the sport studies major or consent of instructor.

REPEATABILITY CLARIFICATION

593 Independent Study (1-3)

Repeatability: May be repeated. Maximum 6 hours.

594 Supervised Readings (1-3)

Repeatability: May be repeated. Maximum 6 hours.

693 Independent Study (1-3)

Repeatability: May be repeated. Maximum 6 hours.

694 Supervised Reading (1-3)

Repeatability: May be repeated. Maximum 6 hours.

DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY, HEALTH, AND EDUCATIONAL STUDIES

MOVE THE FOLLOWING ACADEMIC DISCIPLINES AND COURSES FROM HEALTH AND SAFETY PROGRAMS TO THE DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY, HEALTH, AND EDUCATIONAL STUDIES—(449) HEALTH, (839) PUBLIC HEALTH, (890) SAFETY

(271) Cultural Studies In Education

REVISE TITLE, DESCRIPTION AND REMOVE COMMENT

592 Social Justice and Education (3) Social justice issues: education practices. Social justice, moral commitments to others in educational settings, and equal opportunity to acquire social goods and benefits.

REVISE PRIMARY COURSE TO ADD CROSS-LISTING

512 History of Women's Education (3) Historical study of the institutions and philosophies of education that have shaped the education of girls and women in the United States. (*Same as Women's Studies 512.*)

548 Transforming Critical Thinking: Constructive Thinking and Educational Implication (3) Critique and transformation of critical thinking to more holistic, relational, and aesthetic model of multicultural and gender-sensitive constructive thinking; confronting power and addressing educational implications. (*Same as Women's Studies 548.*)

609 Feminist Theories and Education (3) Theoretical research currently presented by feminist scholars questioning traditional (male) theories; application of these feminist theories to current feminist work in education. (*Same as Women's Studies 609.*)

REVISE TO REMOVE COMMENTS AND REGISTRATION PERMISSION

539 Development of Education Thought (3)

(569) Instructional Technology

ADD

670 Constructivist Perspectives in Instructional Technology (3) Effectively designed technology based teaching strategies can enhance learning in a wide variety of subjects and learners from K-12 students to adults. This course will examine the theories, principles, and applications of constructivism with emphasis on technology based constructivist strategies and instructional designs for online and classroom learning.

REVISE TO REMOVE (DE) PREREQUISITES

571 Desktop Publishing for Educators (3)

573 Introduction to Multimedia in Instruction (3)

578 Web Design (3)

680 Designing Problem-Based Learning Environments (3)

REVISE (DE) PREREQUISITE

576 Advanced Interactive Multimedia for Instruction (3)

(DE) Prerequisite(s): 573.

(839) PUBLIC HEALTH

ADD

522 Public Health Leadership (3) Principles and practices of leadership within public health and community settings. Leadership and the core public health functions of assessment, policy development and assurance. Enhancing communication, decision making, team building and conflict resolution skills. Leadership for planning process and organizational change. Review of case studies and skill building exercises.

544 Statistical Software for the Health Professional (3) An intermediate level, survey of three software packages used by public health professionals for data analysis, including Microsoft Excel, Epi Info, and SAS. For students in the applied epidemiology graduate certificate program, data management and analysis using the software packages are explored. As a continuation of biostatistics and the introduction and advanced courses in epidemiology, this capstone course emphasizes application.

(DE) Prerequisite(s): 530, 540, 542.

Registration Permission: consent of instructor.

REVISE CREDIT HOURS AND DESCRIPTION

510 Environmental and Occupational Health (3) Health risks and complexities of personal and community environments impacting individual's health and response to a diverse and dynamic world. Principles of occupational safety and health. Survey of contemporary environmental issues and their implications for healthful living.

(890) Safety

ADD

560 Fire Risk Management (3) Development, implementation, and management of comprehensive fire safety program. Basic fire risk management concepts, interpretation of codes and exposure to basic fire analysis techniques.

DROP FOR GRADUATE CREDIT

460 Fire Risk Management (3)

DEPARTMENT OF NUTRITION

(726) Nutrition

DROP

542 Advanced Experimental Nutrition (2)

DEPARTMENT OF RETAIL, HOSPITALITY, AND TOURISM MANAGEMENT**(514) Hotel, Restaurant, and Tourism**

REVISE PRIMARY COURSE TO DROP CROSS-LISTING

510 Trends and Issues in Service Management (3)**DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION****(141) Art Education**

REVISE TITLE AND DESCRIPTION

530 Production and Critical Pedagogy in Art (3) Relationship of production to aesthetics and critical analysis of works of art.**(340) English Education**

REPEATABILITY CLARIFICATION

590 Seminar in Teaching English in Secondary Schools (3)*Repeatability: May be repeated. Maximum 9 hours.***(394) Foreign Language/ESL Education**

ADD

588 Content-Based ESL Methods (3) This course is focused on designing and implementing content-based English as a Second Language instruction to enhance English language learners academic achievement. This course is offered for ESL education students.*Registration Permission: consent of instructor.*

DROP

587 Teaching Foreign Languages in Secondary Schools (3)

REVISE DESCRIPTION AND (DE) PREREQUISITES

578 Teaching English as a Second Language (3) The course examines ESL pedagogy, practices, and instructional strategies that accommodate students in all levels of ESL/EFL settings. This class is required for Tennessee (PreK-12) licensure.*(DE) Prerequisite(s): 588 or consent of instructor.***(642) Mathematics Education**

REVISE TO REMOVE (DE) PREREQUISITES

522 Programs and Materials in School Mathematics (3)**550 Mathematics Assessment (3)****581 Mathematics Curriculum (3)****583 Teaching Mathematics in Senior High Schools and Community Colleges (3)****(847) Reading Education**

REVISE (DE) PREREQUISITES

539 Practicum in Remediation of Reading Problems (3)*(DE) Prerequisite(s): 537 or 538.***(899) Science Education**

REVISE TO ADD (DE) PREREQUISITES

565 Instructional Trends and Issues in Science Education (3)*(DE) Prerequisite(s): 496.*

(932) Special Education

ADD FOR GRADUATE CREDIT

410 Early Childhood Special Education Foundations (3) Introduction to the field of early childhood special education including the nature of disabling conditions; theoretical perspectives in the field; legislation; policies and procedures used in the field.

REPEATABILITY CLARIFICATION

506 Internships in Teaching in Special Education and Rehabilitation (3-15)

Repeatability: May be repeated. Maximum 15 hours.

REVISE TO REMOVE (DE) PREREQUISITES

554 Assessment in Early Childhood Special Education (3)

564 Psychosocial Development of Gifted and Talented Children (3)

587 Seminar: Issues and Theories in the Education of the Exceptional Child (3)

(978) Theory and Practice in Teacher Education

REPEATABILITY CLARIFICATION

518 Educational Specialist Research and Thesis (3)

Repeatability: May be repeated. Maximum 15 hours.

593 Independent Study (1-3)

Repeatability: May be repeated. Maximum 12 hours.

594 Supervised Readings (1-3)

Repeatability: May be repeated. Maximum 12 hours.

595 Special Topics (1-3)

Repeatability: May be repeated. Maximum 12 hours.

693 Independent Study (1-3)

Repeatability: May be repeated. Maximum 12 hours.

694 Supervised Reading (1-3)

Repeatability: May be repeated. Maximum 12 hours.

695 Special Topics (1-3)

Repeatability: May be repeated. Maximum 12 hours.

REVISE TITLE AND DESCRIPTION

617 Advanced Studies in Education—An Interdisciplinary Perspective (3) Educational trends, issues, and policies related to curriculum and instruction, assessment, the organization and administration of schools, and preparation of educators for both K-12 and higher education settings.

II. PROGRAM CHANGES**DEPARTMENT OF CHILD AND FAMILY STUDIES**

REVISE CHILD AND FAMILY STUDIES CONCENTRATION (CHILD AND FAMILY STUDIES MAJOR - MS)

On page 127 of the 2005-06 Graduate Catalog, left column, under Requirements, first sentence, after "or Social Work 605," add "or Educational Psychology 577; and continue with sentence.

In footnote #2, add "or Educational Psychology 577" after Social Work 605.

In footnote #3, add "Child and Family Studies 572" after "...may not include.

REVISE EARLY CHILDHOOD EDUCATION CONCENTRATION (CHILD AND FAMILY STUDIES MAJOR - MS)

On page 127 of the 2005-06 Graduate Catalog, right column, under Requirements 3rd sentence delete words "Teacher Education" and replace with "fifth-year teacher licensure." In fourth sentence delete words "Teacher Education" and replace with "fifth-year teacher licensure." In last sentence after "Social Work 605" delete the word "or" and after Education Psychology 550 add, "or Educational Psychology 577" In footnote #3 delete "or Counselor Education 520 and replace with "Educational Psychology 550 or Educational Psychology 577." In footnote #4 delete first word "select" and replace with "Elected".

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND COUNSELING

REVISE SCHOOL COUNSELING CONCENTRATION (COUNSELING MAJOR – MS)

On page 134 of the 2005-2006 Graduate Catalog, 1st column, revise the 2nd year requirements to:

Year 2

Counselor Education 555.....	3
Counselor Education 558.....	6
Counselor Education 561.....	3
Counselor Education 570.....	3
Educational Psychology 510.....	3
Educational Psychology 515.....	3
*Special Education 470.....	3
**Education 589.....	3
Year 2 Total 24 or 27**	
Total Program Hours 48 or 51**	

*Individuals with teaching license can substitute an elective for this course.

** Required for individuals without a teaching license.

REVISE PHD, EDUCATION MAJOR, COUNSELOR EDUCATION CONCENTRATION

On page 135 of the 2005-2006 Graduate Catalog, 1st column, under Requirements

REQUIREMENTS*

Coursework for the program in counselor education includes the following.

	Hours Credit
Concentration	33
Specialization (not counselor education)	9
Cognate	6
Core	10
Research	15
Dissertation	24
Total 97	

*More detailed information about coursework is available in the program handbook and through the advising process.

REVISE EDUCATIONAL PSYCHOLOGY CATALOG TEXT

On page 130 2nd column under the heading of Educational Psychology, revise to include introductory paragraphs as follows:

EDUCATIONAL PSYCHOLOGY

Educational Psychology offers individuals a choice of two concentrations at the master's level and three PhD specializations. These options allow us to meet the needs of students with varying interests within the broad field of educational psychology. The areas of adult education, applied educational psychology, and collaborative learning are linked by a common interest in human development, teaching and learning, and methods of inquiry. Educational psychology prepares students with diverse backgrounds for leadership roles in education across the life span and in facilitation of improved professional practices. Together, we create a community of learners in which students and faculty members regularly share with and learn from one another through collaborative scholarship. Graduates are employed in such areas as higher education, K-12 education, business and industry, nonprofit, and community service agencies.

Adult Education

<http://web.utk.edu/~adulded/>

The adult education program is designed for those interested in providing learning opportunities for adults. It is intended for educators of adults in a wide range of settings such as adult literacy, continuing higher education, business and industry, government and community-based organizations, volunteer agencies, and professional and staff development programs. The program prepares individuals for such roles as program planner, instructor, trainer, and administrator.

Applied Educational Psychology

http://web.utk.edu/~edpsych/grad/app_ed_psych/

The applied educational psychology program is designed for individuals who seek to provide professional leadership in the facilitation of learning and development (at the master's and doctoral levels), with an opportunity to focus on the needs of underachieving and nontraditional learners through application of cognitive education and social constructivist approaches, and/or applied statistics and measurement (at the doctoral level). It is intended for individuals focused on careers in a wide range of settings such as higher education, K-12 education, community-based agencies and research institutions.

The master's program is often used as a stepping stone to a doctoral program in educational or school psychology or as additional preparation for functioning in professional support roles in schools, mental health centers, and business programs devoted to personal and professional development.

The doctoral program addresses the needs of professionals in educational psychology as well as others who desire in-depth study at an advanced level on one of two areas of emphasis. Many graduates of this specialization work in higher education or research institutes and focus on human learning and development and/or applied statistics/measurement as it relates to teaching and learning.

Collaborative Learning

http://web.utk.edu/~edpsych/grad/collab_learning/default.html

The collaborative learning program addresses the advanced educational needs of professionals working in a variety of settings including business, government, higher education, and non-profit organizations. Participants study the collaborative learning process and engage in action research in the context of their own professional practices. A cohort of doctoral students is admitted every other year.

REVISE APPLIED EDUCATIONAL PSYCHOLOGY CONCENTRATION (EDUCATIONAL PSYCHOLOGY MAJOR – MS)

On page 131 of the 2005-2006 Graduate Catalog, 2nd column, revise to

Requirements

Students complete 36 hours beyond the baccalaureate degree. A minimum of 24 hours must be at the 500 level or higher. At least 6 hours must be taken outside the department. Students must choose between thesis and non-thesis options. Approved courses are listed below. Equivalent courses may be substituted with the consent of the program committee.

	Hours Credit
¹ Applied Educational Psychology Core.....	3
² Human Development.....	6
³ Learning Principles	9
⁴ Research	3
⁵ Assessment	3
⁶ Intervention.....	6
⁷ Thesis or Electives	6
	Total 36

¹Educational Psychology 507.

²Courses related to human development help students explore the role of development in learning for more and less successful learners. They include a choice of Educational Psychology 510, 522 and/or Psychology 511.

³Courses related to learning principles provide an opportunity to compare behavioral and cognitive learning theories in-depth and other theories in comparison. Students may study learning as it relates to adults as well as children. Courses include Educational Psychology 671, and a choice of two of the following 3 courses—Educational Psychology 515, 516, or 522.

⁴Students explore statistics and research from a conceptual perspective. Non-thesis students take Educational Psychology 550. Thesis students take Educational Psychology 577.

⁵The assessment course provides an overview of assessment concepts, approaches, and issues. Students take Counselor Education 525.

⁶The courses related to intervention include exploration of approaches for meeting the needs of nontraditional and underachieving students, program development and facilitation of adult learning, self-management and reflective practice, and facilitation of group change. Students choose two courses from the following—Educational Psychology 572, 573, and/or 574.

⁷Thesis students take 6 thesis hours toward the 36-hour program in lieu of electives. The thesis involves an original research project. A written document of the research is presented to the student's graduate committee members and discussed in an oral examination regarding the research. Non-thesis students complete a comprehensive examination. This typically involves the writing of scholarly papers in response to questions from each of the student's graduate committee members. A minimum of 6 hours of non-thesis electives may be chosen from the following courses—Educational Psychology 460, 513, 522, 525, and/or 529.

REVISE EDUCATION MAJOR (PHD) - EDUCATIONAL PSYCHOLOGY CONCENTRATION (INTRODUCTION AND REQUIREMENTS)

On page 131 of the 2005-2006 Graduate Catalog, 1st column, revise to:

Doctor of Philosophy • Education Major • Educational Psychology Concentration

Concentration Core (10 hours)

The concentration core in educational psychology reflects the connections between specializations and their foundation in educational psychology. The core also includes a departmental doctoral seminar that orients new students to doctoral study and scholarly activities. In addition, all students must take as one of their research courses, a departmental course that introduces modes of inquiry through appropriate selection of quantitative and/or qualitative methods. Students may select other research courses according to preference and specialization requirements as described below. Core courses include—Educational Psychology 507, 513, 525, 601.

REVISE REQUIREMENTS FOR THE EDUCATION MAJOR (PHD) - EDUCATIONAL PSYCHOLOGY CONCENTRATION - ADULT EDUCATION SPECIALIZATION

On page 131 of the 2005-2006 Graduate Catalog, 1st column revise to

Adult Education Specialization

The PhD specialization in adult education involves a minimum of 79 hours of study beyond the master's degree. This includes at least 55 hours of coursework and 24 hours of dissertation.

	Hours Credit
Concentration.....	10
Specialization.....	18
Research*	15
Cognate	6
Electives.....	3-12
Dissertation	24
	Total 79-87

The concentration core consists of courses as described above. Courses for the specialization are from adult education courses such as those listed under the master's degree requirements and electives. *A departmental course introducing quantitative and qualitative methods is required for all students as a part of the minimum 15 hours of research. To meet the research requirement, students take courses that provide them with knowledge and skills in both quantitative and qualitative research methods. At least six hours must be taken in a cognate area outside the College of Education, Health, and Human Sciences. Dissertation hours are taken after all or most coursework is completed; once begun, students must register for a minimum of three hours until the dissertation is completed.

REVISE REQUIREMENTS FOR THE EDUCATION MAJOR (PHD) – EDUCATIONAL PSYCHOLOGY CONCENTRATION - APPLIED EDUCATIONAL PSYCHOLOGY SPECIALIZATION

On page 132 of the 2005-2006 Graduate Catalog, 2nd column, revise to:

Applied Educational Psychology Specialization

The specialization requires a minimum of 88 hours of graduate credit beyond the baccalaureate degree distributed among the following seven categories.

	Hours Credit
¹ Concentration Core	10
² Applied Educational Psychology Doctoral Seminar.....	12
³ Area of Emphasis	9
⁴ Research	15
⁵ Cognate.....	6
⁶ Professional Preparation	12
⁷ Dissertation.....	24
	Total 88

¹The concentration core is described above and includes one designated three-hour course from each specialization in educational psychology and a one-hour doctoral seminar, which is taken during the student's first semester.

²All applied educational psychology students enroll in two hours of the AEP doctoral seminar during every fall and spring semester during their first three years.

³Applied educational psychology students select an area of emphasis in either (1) applied statistics and measurement, or (2) human learning and development. For students with the learning/development emphasis, course options include (but are not limited to) mediated learning theory, educational applications of cognitive learning theories, educational applications of behavioral learning theories, collaborative learning, and facilitation of group change. For students with the applied statistics and measurement emphasis, course options include (but are not limited to) survey design and analysis, categorical data analysis, applied multivariate methods, and scale construction.

⁴A departmental course introducing quantitative and qualitative methods is required for all students as a part of the minimum 15 hours of research. In addition to this course, students can elect to take a set of courses that deal with quantitative methodologies (e.g., experimental design, seminar in applied psychometrics) or they can elect to take a full set of courses that deal with qualitative methodologies (e.g., phenomenology, discourse analysis, or a survey of qualitative methods) or they can elect to take a mix of these courses.

⁵The cognate requires a minimum of two courses outside the Department of Educational Psychology and Counseling. Many students choose psychology or statistics, although many other cognates are possible.

⁶Toward the end of the program, each student will take 12 hours of courses that involve the refinement of professional skills including technical or scholarly writing, two independent study course experiences, and an internship in educational psychology. Students planning to teach in a college or university setting are encouraged to take an additional course in instructional design for higher education.

⁷All students will enroll in a minimum of 24 hours of dissertation. Further details are described elsewhere in this catalog.

REVISE REQUIREMENTS FOR THE EDUCATION MAJOR (PHD) – EDUCATIONAL PSYCHOLOGY
CONCENTRATION – COLLABORATIVE LEARNING SPECIALIZATION

On page 132 of the 2005-2006 Graduate Catalog, 1st column, top of page, revise to

Collaborative Learning Specialization

Doctoral students in the collaborative learning specialization are expected to complete a minimum of 94 hours of graduate credit above the baccalaureate degree. Required is a two-year residency, consisting of six consecutive semesters in which the student will enroll in a minimum of 6-9 credit hours of course work in each of four semesters and a minimum of 9 hours in each of two consecutive semesters. These hours are distributed among the following categories.

	Hours Credit
¹ Concentration Core in Educational Psychology	10
² Specialization Core in Collaborative Learning	24
³ Research Methods	15
⁴ Cognate	6
⁵ Electives	15
⁶ Dissertation Research	24
	Total 94

¹The concentration consists of courses in each specialization and a departmental seminar course as described in the concentration section above.

²The specialization core consists of four courses in the area of Collaborative Learning plus the doctoral seminar. Educational Psychology 630, Doctoral Seminar in Collaborative Learning, is taken on a continuous basis, beginning with the first semester of the student's residency and culminating at the end of the second year of residency, excluding summers. Three credit hours are awarded per semester for a total of 12 hours of credit.

³This set of courses includes courses in qualitative and quantitative research methods and statistics.

⁴Courses taken in an area outside the major area of study.

⁵Additional courses of the student's choice that support his or her program emphasis.

⁶The focus of the student's dissertation research is his or her own professional practice and therefore must involve some form of action research methodology.

REVISE PLACEMENT AND HEADING OF SCHOOL PSYCHOLOGY AND REVISE DATE MATERIALS ARE DUE

On page 136 of the 2005-2006 Graduate Catalog, 1st column. Change heading name of School Psychology to School Psychology Programs and make into a main heading (not part of the Higher Education Administration area). Revise last sentence to change date materials are due from January 15 to January 5.

SCHOOL PSYCHOLOGY PROGRAMS

http://web.utk.edu/~edpsych/grad/school_psych/default.html.

The school psychology programs are based on a data-based decision making model and offer advanced training in psychological, educational, and professional foundations including training in assessment, research, consultation, and intervention. We offer two degree programs, the Specialist in Education and the Doctor of Philosophy. The school psychology programs are accredited or approved by the relevant bodies including the American Psychological Association (APA), the National Association of School Psychologists (NASP), the National Council for Accreditation of Teacher Education (NCATE), and the Tennessee Department of Education. Admission occurs once a year and materials are due by January 5.

REVISE REQUIREMENTS FOR SCHOOL PSYCHOLOGY MAJOR, SPECIALIST IN EDUCATION DEGREE

On page 136 of the 2005-2006 Graduate Catalog, 2nd column, top of page, revise to:

REQUIREMENTS

	Hours Credit
¹ Professional School Psychology	13-15
² Consultation and Intervention	23
³ Assessment	20
⁴ Research and Statistics	12-15
⁵ Psychoeducational Core	33

Field and Practica Experiences by Semester

First Year: Spring

Knowledge, Roles, and Functions (40-80 clock hours); School Psychology 650 (1) (spring)

Second Year, Fall

Introduction to consultation and intervention practices (50-100 clock hours); School Psychology 650 (1)

Second Year, Spring

Develop consultation skills (150-200 clock hours); School Psychology 546 (3)

Third Year, Fall and Spring

Practice professional assessment skills (e.g., administration, interpreting, report writing) (75 clock hours /semester); School Psychology 542

Total clock hours structured field experience 385, prior to internship

Fourth Year, Fall and Spring

School Psychology 549 (2); knowledge and skill development and mastery (1200-1500 clock hours). A minimum of 600 clock hours in school settings.

¹Educational Psychology 635; School Psychology 540, 549 (2), 650 (2-4); Special Education 470.

²Counselor Education 551; Group Process and Change Option (3); Educational Psychology 515, 516, 517; School Psychology 545, 546, 549 (2).

³Counselor Education 525; Educational Psychology 517; School Psychology 541 (3,3), 542 (3,3), 549 (2).

⁴Educational Psychology 577 or Statistics 531; Educational Psychology 655 (2-6) or 505 or 503 (3).

⁵Counselor Education 570; Educational Psychology 510; Psychology 461; School Psychology 549 (2), 690, 650 (2-4); Group Processes and Change Option (3); Family Studies Option (3); Social Basis of Behavior Option (3).

REVISE REQUIREMENTS FOR THE EDUCATION MAJOR (PHD) - SCHOOL PSYCHOLOGY CONCENTRATION

Beginning on page 136 of Graduate Catalog, 2nd column, bottom of page under the heading of Doctor of Philosophy, revise the School Psychology concentration requirements to appear as follows:

Doctor of Philosophy

Education Major • School Psychology Concentration

Requirements

	Hours Credit
¹ Professional School Psychology	15-30
² Consultation and Intervention.....	24
³ Assessment	21
⁴ Research and Statistics.....	37-44
⁵ Psychoeducational Core.....	35-39

Field and Practica Experiences by Semester

First Year: Spring

Knowledge, Roles, and Functions (40-80 clock hours); School Psychology 650 (1) (spring)

Second Year, Fall

Introduction to consultation and intervention practices (50-100 clock hours); School Psychology 650 (1)

Second Year, Spring

Develop consultation skills (150-200 clock hours); School Psychology 546 (3)

Third Year, Fall and Spring

Practice professional assessment skills (e.g., administration, interpreting, report writing) (75 clock hours /semester); School Psychology 542

Fourth Year, Fall and Spring

School Psychology 650 (1-12), Educational Psychology 600

..... **Total clock hours structured field experience 425, prior to internship**

Fifth Year, Fall, Spring, and Summer

Practice, Development, and Mastery of Skills (2000 clock hours); School Psychology 649 (3). A minimum of 600 clock hours in school settings.

¹Educational Psychology 601 (1), 635; School Psychology 540, 649 (3), 650 (3-20); Special Education 470.

²Counselor Education 551; Group Process and Change Option (3); Educational Psychology 515, 516, 517; School Psychology 545, 546, 649 (3), Educational Psychology 650 (1).

³Counselor Education 525; Educational Psychology 517; School Psychology 541 (3,3), 542 (3,3), 649 (3).

⁴Educational Psychology 577 and 677 or Statistics 531 and 532; Educational Psychology 505, 600 (24), 655 (4-8).

⁵Counselor Education 570; Educational Psychology 510; Psychology 420/565, 461; School Psychology 649 (3), 650 (4-8), 690; Curricula-Instruction Option (3); Group Processes and Change Option (3); Family Studies Option (3); Social Basis of Behavior Option (3).

Ⓞ DROP REHABILITATION COUNSELOR EDUCATION CONCENTRATION (COUNSELING MAJOR – MS)

Ⓞ ADD REHABILITATION COUNSELING CONCENTRATION (COUNSELING MAJOR – MS)

REVISE INTRODUCTORY CATALOG TEXT

On page 133 of the 2005-2006 Graduate Catalog, 1st column, under the heading Counseling Programs, revise to show change of name of concentration.

Third sentence revise rehabilitation counselor education to rehabilitation counseling.

Revise last two sentences to: The graduate program in Rehabilitation Counseling is service oriented and is accredited by the Council on Rehabilitation Education, Inc. (CORE). It leads to certification from the Commission on Rehabilitation Counselor Education (CRCC).

REVISE TITLE AND REQUIREMENTS FOR COUNSELING MAJOR (MS), REHABILITATION COUNSELING CONCENTRATION

On pages 133 and 134 of the 2005-2006 Graduate Catalog, Master of Science, Counseling Major, revise as follows:

- 1) Change concentration in heading from Rehabilitation Counselor Education to Rehabilitation Counseling.
- 2) Second sentence change rehabilitation counselor education to rehabilitation counseling.
- 3) Third sentence change rehabilitation counselor education to rehabilitation counseling.
- 4) Fifth sentence revise to: The program is fully accredited by the Council on Rehabilitation Education, Inc. (CORE).

Requirements

The recommended course of study for full-time rehabilitation counseling concentration students is

Fall 1

- Counselor Education 551
- Rehabilitation Counseling 530, 543, 545, 592; 549 (second year students only)

Spring 1

- Educational Psychology 550
- Rehabilitation Counseling 547, 532, 537; 549 (second year students only)
- Elective

Summer 1

- Rehabilitation Counseling 533, 593, 570
- Counselor Education 554

Fall 2

- Rehabilitation Counseling 549 (second year students only)

All rehabilitation counseling courses, with the exception of RC 549, are offered only one semester per year. Students who are admitted to the program must meet with an advisor each semester to plan their studies.

Program Contacts

- Dr. Amy L. Skinner, LPC, CRC, NCC Program Coordinator, askinner@utk.edu
- Terry Osborne, Instructor and Deafness-Focus Area Advisor, osborne@utk.edu

DEPARTMENT OF EXERCISE, SPORT, AND LEISURE STUDIES

Ⓞ ADD MINOR IN EXERCISE PHYSIOLOGY

On page 138 of the 2005-2006 Graduate Catalog, add:

Exercise Physiology Minor

The graduate minor consists of Exercise Science 533, 567, 601, and one other Exercise Science 500-level or above three credit hour course.

REVISE EXERCISE SCIENCE MAJOR (MS), EXERCISE PHYSIOLOGY CONCENTRATION

On page 138 of the 2005-2006 Graduate Catalog, 2nd column, Requirements – Revise first sentence to: Exercise Science 508, 531, 533, 565, 567, 635, 601 (1 hr seminar, 2 enrollments). Removing "(or Health 590)" and replacing with 531.

REVISE EXERCISE SCIENCE MAJOR (MS), BIOMECHANICS-SPORTS MEDICINE CONCENTRATION

On page 138 of the 2005-2006 Graduate Catalog, 2nd column, Requirements: Revise 1st bullet to:

- Exercise Science 508, 513, 531, 533, 581 (3 hours), 635, 601 (1 hour seminar, 2 enrollments).

REVISE CATALOG TEXT

On Page 137-139 of the 2005-2006 Graduate Catalog revise to:

Exercise Science is dedicated to promoting and integrating scientific research and education on the health benefits of exercise. Through a program of interdisciplinary graduate study, using both experimental and epidemiological methods, students gain a greater understanding of the role of exercise in the prevention of various cardiovascular, metabolic, and musculoskeletal disorders. The department offers two MS concentrations and three PhD specializations.

The biomechanics/sports medicine concentration (MS) and specialization (PhD) involves the study of biomechanical implications to exercise and rehabilitation. This program area focuses on the mechanism, prevention, and rehabilitation of musculoskeletal injuries. The emphases in courses taught in this area include biomechanical as well as medical considerations related to exercise and/or rehabilitation. The PhD program requires course work in engineering mechanics, numerical analysis, statistics, and advanced topics in biomechanics. Graduate students work with biomechanics/sports medicine faculty to pursue research in the areas of biomechanics of lower extremity function, footwear biomechanics, core stability, flexibility, and the biomechanics of injury mechanism and prevention.

The exercise physiology concentration (MS) and specialization (PhD) involves the study of the acute and chronic effects of exercise on the human body. At the master's level, students may choose from two tracks: (1) adult fitness/cardiac rehabilitation, or (2) applied physiology research. Students may elect to do internships in cardiac rehabilitation at several area hospitals, and are encouraged to take the ACSM Exercise Specialist exam upon graduation. The PhD program requires course work in the life sciences, physiological chemistry, statistics and advanced topics in exercise physiology. Graduate students collaborate with an exercise physiology faculty member to perform research in the areas of physical activity assessment, metabolism, the health benefits of exercise, and body composition.

The physical activity and population health specialization (PhD) involves an in-depth examination of the impact of regular physical activity on a variety of health outcomes. Students who pursue this specialization will explore various aspects of these relationships including: epidemiological and statistical methodologies, mechanisms of action, and issues related to promotion exercise adherence. Students will be expected to collaborate with faculty mentors on questions exploring the health and exercise relationship. Supporting coursework in other departments (e.g., sport studies, nursing, statistics) may be required.

Graduate Assistantships

A limited number of graduate assistantships are available for qualified students who are graduates of accredited colleges or universities. These assistantships are open to students in the master's and doctoral programs. Students interested in these opportunities should file their applications before February. Letters should be addressed to Graduate Assistantships Coordinator, Department of Exercise, Sport & Leisure Studies, The University of Tennessee, Knoxville, Tennessee 37996-2700.

CLARIFY ENTRANCE REQUIREMENTS, EDUCATION MAJOR (PHD), SPORT STUDIES CONCENTRATION

On page 140 of the 2005-2006 Graduate Catalog, under Requirements heading add the following paragraph:

Students must have completed all requirements for a master's degree in kinesiology, physical education, psychology, sociology, sport studies or a related field prior to beginning the PhD program. The program usually takes 3 years (2 years of coursework and 1 year for the dissertation).

● ADD DUAL MS-MBA PROGRAM

On page 139 of the 2005-2006 Graduate Catalog, insert

DUAL MS-MBA

The College of Education, Health, and Human Sciences and the College of Business Administration offer an integrated program leading to the conferral of the Master of Science with a major in Sport Studies (concentration in sport management) and the Master of Business Administration.

Increasingly, sports and sports-related companies are represented by significant business enterprises. Success in these enterprises requires the application of business fundamentals, analytical techniques, and management skills within the specific context of the sports industry. The objective of the dual degree program is to train individuals in sport management and business management to integrate both sport and management and to prepare them to undertake leadership roles in this growing, dynamic, and competitive industry.

Admission

Applications are accepted for fall semester only. Applicants for the MS-MBA program must make separate application to, and be competitively and independently accepted by, Graduate and International Admissions for the Master of Business Administration degree program and the Master of Science Degree for Sport Studies.

Students will initially apply for the MBA program, indicating on their application the intent to pursue the dual MS-MBA program. Students accepted for both the MBA and MS programs will be assigned to Dual Program Committee advisors, who will be responsible for course approval and supervision of the students' progress through the dual program.

Applications by U.S. citizens and permanent residents received after the application deadline (March 1) will be considered as space allows. Additional information is required and different application dates are established by Graduate and International Admissions for international students.

Requirements

The MBA curriculum consists of 31 hours of common coursework in the College of Business Administration. Dual degree candidates enrolled in sport management are required to take 30 hours of graduate level Sport Management courses and internship.

The dual degree candidate must satisfy the curriculum and graduation requirements of the sport management major and the College of Business Administration. Students withdrawing from the dual degree program before completing both degrees will not receive credit toward graduation in either degree program for courses taken in the other degree program, except as such courses qualify for credit without regard to the dual degree program.

The MBA and MS will be awarded upon successful completion of the requirements of the dual program.

Curriculum for Dual MS-MBA • Sport Studies Major • Sport Management Concentration

August—First Year

Business Administration 511	MBA Core I	3
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Fall—First Year

Business Administration 501	MBA Career Development	1
Business Administration 512	MBA Core II	15

Spring

Business Administration 513	MBA Core III	9
MBA Elective	Recommend: Marketing 520	3
Sport Management 554	Readings in Sport Management	3

Summer

Sport Management 595	Sport Management Internship	6
Sport Management 501	Sport Management Special Projects	3

Fall—Second Year

Sport Management 544	Leadership Theories in Sport	3
Sport Management 511	Administration and Supervision in Sport	3
Sport Management 532	Research Techniques in Sport	3

Spring—Second Year

Sport Management 530	Sport and Media Issues	3
Sport Management 512	Legal Concepts in Sport	3
Sport Management 535	Social and Ethical Issues in Sport	3

Total 61

DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES

Ⓞ MOVE THE FOLLOWING FROM HEALTH AND SAFETY PROGRAMS TO THE DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY, HEALTH, AND EDUCATIONAL STUDIES

Public health major (MPH) and concentrations (community health education, gerontology, health planning/administration, veterinary public health)

Dual MS-MPH (Nutrition/Public Health)

Graduate Certificate Program – Applied Epidemiology

Safety major (MS) and concentrations (emergency management and safety management)

Gerontology minor

REVISE REQUIREMENTS FOR PUBLIC HEALTH MAJOR (MPH)

On page 141 of the 2005-2006 Graduate Catalog, revise the Master of Public Health, Public Health Major to:

REQUIREMENTS

Public Health Major

	Hours Credit
¹ Public Health Foundation	17
² Concentration	10
³ Electives	6
⁴ Internship	6
...	Total 39

¹Public Health Foundation courses: Public Health 509 (2 hours) 510, 520, 530, 540, 555.

²Community Health Education: Public Health 550, 552, 590. Gerontology: Public Health 585, 650, Social Work 566, Educational Psychology 528. Health Planning & Administration: Public Health 521, 525, 560. Veterinary Public Health: Public Health 550, Veterinary Medicine 837, Comparative and Experimental Medicine 501.

³Listings of electives for each concentration are available in MPH program office.

⁴Public Health 587, 588 (field practice with an affiliated health agency or completion of a master's essay). Written guidelines stipulating eligibility criteria and expectations are available.

NOTE: To meet program requirements, students must select courses in consultation with an assigned program advisor. Program totals are minimums and some students may be required to complete additional coursework to overcome background deficiencies.

REVISE CONCENTRATION IN COMMUNITY HEALTH

On page 141 of the 2005-2005 Graduate Catalog, revise community health concentration to appear as follows:

Human Ecology Major • Community Health Concentration

	Hours Credit
¹ Research and Foundations	15
² Community Health Specialization	27
³ Supporting Specialization (Public Health, Safety, or Gerontology)	12
⁴ Cognate	6
Dissertation (Health 600)	24
	Total 84

¹Instructional Technology and Educational Studies 601; Health 590; Statistics 531, 532 or a two course 500-level statistics sequence approved by doctoral chair. Three hours of natural or behavioral sciences approved by doctoral chair.

²Health 610, 620, 530, 540, 655, 660, and Public Health 550 (Required) and six additional hours of graduate Health electives. A list of recommended health electives for the community health doctoral program is available in the program office.

³A block of 12 hours must be taken from one of the following areas: public health, safety/emergency management, or gerontology.

⁴Courses must be approved by cognate professor outside the department.

NOTE: To meet program requirements, students must select courses in consultation with a program advisor. Program totals are minimums and some students may be required to complete additional coursework to overcome background deficiencies or to increase skill in an area of identified specialization.

REVISE SAFETY MAJOR – MS

On page 142 of the 2005-2006 Graduate Catalog, revise Safety Major (MS):

Safety Major • Safety Management Concentration (Thesis Option)

	Hours Credit
¹ Core	18
² Required Concentration Courses	6
³ Concentration Elective Select	3
Thesis (Safety 500)	6
	Total 33

¹Safety 532, 533, 534, 535, 592, and a 500-level graduate statistics course.

²Safety 536, 564.

³A list of recommended safety electives for each concentration is available in the program office.

NOTE: To meet program requirements, students must select courses in consultation with a program advisor. Program totals are minimums and some students may be required to complete additional coursework to overcome background deficiencies.

Safety Major • Safety Management Concentration (Non-Thesis Option)

	Hours Credit
¹ Core	18
² Required Concentration Courses	6
³ Concentration Electives.....	9
⁴ Culminating Experience	
	Total 33

¹Safety 452, 532, 533, 534, 535, and 592.

²Safety 536, 564.

³A list of recommended electives for each safety concentration is available in the program office. Elective hours may include a 3-hour internship or a 3-hour research project, if approved by advisor.

⁴Non-thesis safety students are also required to complete a culminating experience, as well as a written comprehensive exam, prior to graduation. A list of options to achieve completion of the culminating experience is available in the safety program office.

NOTE: To meet program requirements, students must select courses in consultation with a program advisor. Program totals are minimums and some students may be required to complete additional coursework depending on academic background.

Safety Major • Emergency Management Concentration (Thesis Option)

	Hours Credit
¹ Core	18
² Required Concentration Courses	9
Thesis (Safety 500).....	6
	Total 33

¹Safety 532, 533, 534, 535, 592 and a 500-level graduate statistics course.

²Safety 560, 537, and Public Administration 562.

NOTE: To meet program requirements, students must select courses in consultation with a program advisor. Program totals are minimums and some students may be required to complete additional coursework depending upon academic background.

Safety Major • Emergency Management Concentration (Non-Thesis Option)

	Hours Credit
¹ Core	18
² Required Concentration Courses	12
³ Concentration Electives.....	3
⁴ Culminating Experience	
	Total 33

¹Safety 452, 532, 533, 534, 535, and 592.

²Safety 560, 537, Public Administration 562, and Safety 601 or 593.

³A list of recommended safety electives for each concentration is available in the program office.

⁴Non-thesis safety students are also required to complete a culminating experience and a written comprehensive exam prior to graduation. A list of options to achieve completion of the culminating experience is available in the safety program office.

NOTE: To meet program requirements, students must select courses in consultation with a program advisor. Program totals are minimums and some students may be required to complete additional coursework depending upon academic background.

ADD GRADUATE CERTIFICATE IN PUBLIC HEALTH LEADERSHIP

On page 142 of the 2005-2006 Graduate Catalog, add Public Health Leadership Certificate

Graduate Certificate in Public Health Leadership

The University of Tennessee MPH program, in a Consortium arrangement with East Tennessee State University, the University of Tennessee Health Science Center, and the Tennessee Department of Health, offers a graduate certificate in public health leadership for Health Department staff seeking continuing education and career advancement opportunities in the public health practice arena. Delivered exclusively through electronically mediated courses, the program is focused on leadership principles and skills as applied in public health and community settings.

The 15-credit hour certificate is available by completing Public Health 520, 522, 525, 580 and an elective, which may be satisfied by taking equivalent courses offered by East Tennessee State University and the University of Tennessee Health Science Center. For those holding the MPH, other identified elective coursework may be used to satisfy certificate requirements, by petition.

REVISE INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES MAJOR (MS), CULTURAL STUDIES OF EDUCATIONAL FOUNDATIONS CONCENTRATION

On page 143 of the 2005-2006 Graduate Catalog, revise footnote #2

²Select three courses in one of the following areas: Philosophy of Education (Cultural Studies in Education 526, 539, 544, 548, 608, or 609); Sociology of Education (Cultural Studies in Education 545, 549); History of Education (Cultural Studies in Education 511, 539, 546, 609, or 625).

REVISE EDUCATION MAJOR (PHD), CULTURAL STUDIES OF EDUCATIONAL FOUNDATIONS CONCENTRATION – PHD

On page 145 of the 2005-2006 Graduate Catalog, revise footnote #4 to

⁴Select 3 courses in one of the following areas: Philosophy of Education (Cultural Studies in Education 526, 539, 544, 548, or 608); Sociology of Education (Cultural Studies in Education 545, 549); History of Education (Cultural Studies in Education 511, 512, 539, 609, or 625).

REVISE GERONTOLOGY MINOR

On page 140-141 of the Graduate Catalog, revise to

INTERCOLLEGIATE/INTERDISCIPLINARY GERONTOLOGY MINOR

An intercollegiate/interdisciplinary minor in gerontology gives the graduate student an opportunity for combining the knowledge and experience about aging in American society with his/her own major concentration. Core courses and a practicum are offered by the College of Nursing, College of Social Work and selected departments within the College of Education, Health, and Human Sciences. A cross-listed seminar among contributing program areas is designed to integrate experiences from different sources and to demonstrate the interdisciplinary nature of working within an aging society.

Requirements

Prior to earning more than one-half the total hours required for this minor, students must complete a Declaration of a Gerontology Minor form found in the advising offices in each of the participating colleges, and in the office of the current Gerontology Coordinator identified by the interdisciplinary Gerontology Colloquy.

Core Experience

Students must complete a core experience of 12 semester hours. This requires one three-hour course in each of the primary disciplines (health science, social science, behavioral science) as identified on the Declaration of a Gerontology Minor form.

- **Coursework (9 hours).** A variety of coursework may be taken toward satisfaction of this requirement. Courses which are offered include Health 406, 465, Health/Public Health 650, Nutrition 518, Public Health 523, Social Work 566, Educational Psychology 504, 522, 525, 528, and other courses approved by the interdisciplinary gerontology colloquy member coordinating the minor.
- **Applied Practicum (2 hours).** Students should register under practicum experiences in the home department of the supervising faculty.
- **Seminar in Gerontology (1 hour).** Cross-listed with participating departments.

Graduate Committee

At least one faculty member from the interdisciplinary Gerontology Colloquy who is qualified to work with graduate students, must serve on the graduate committee of each student who declares a gerontology minor.

Admission to Candidacy

When application is made for admission to candidacy, indication of the minor must be noted on the Admission to Candidacy form.

REVISE GERONTOLOGY CERTIFICATE PROGRAM

Revise the Gerontology graduate certificate approved in April 2005 (effective Fall 2006) to

GRADUATE CERTIFICATE IN GERONTOLOGY

The graduate certificate in gerontology is intended for pre- and in-service workers in gerontology. The program of study follows the guidelines of the Association of Gerontology in Higher Education and is offered under the purview of the University's Gerontology Colloquy. Program requirements are

Requirements

Nine (9) hours covering the focus areas of the interdisciplinary field of gerontology

¹ Physical	3
Social—Social Work 566	3
Behavioral—Educational Psychology 523	3
Internship or practicum	6
² Electives	6

¹ Select one of the following: Health/Public Health 650; Nutrition 518.

² At least six hours from: Educational Psychology 504; Exercise Science/Public Health 635; Health 406, 570, Health 585 (cross-listed with several disciplines; may be repeated, 3 hours maximum); Public Health 523; Nursing 400; Social Work 540; other courses as approved by the interdisciplinary gerontology colloquy member coordinating the gerontology minor and the certificate program.

DEPARTMENT OF NUTRITION

REVISE NUTRITION MAJOR (MS) - (THESIS OPTION)

On page 146 of the 2005-2006 Graduate Catalog, revise to:

Nutrition 511, 512, 540, 541 and 3 hours of graduate level statistics are required of nutrition science students

REVISE MS NUTRITION MAJOR (MS) - (NON-THESIS OPTION)

On page 146 of the 2005-2006 Graduate Catalog, revise to

Nutrition 511, 512, 540, 541, 2 hours from 542, 544 and 3 hours of graduate level statistics are required of nutrition science students.

REVISE MS-MPH PROGRAM

On page 146 of the 2005-2006 Graduate Catalog, revise admissions section, first paragraph to

Applicants for the MS-MPH program must make separate application to, and be competitively and independently accepted by, the Department of Nutrition for the MS, Department of Instructional Technology, Health, & Educational Studies for the MPH.

On page 146 of the 2005-2006 Graduate Catalog, under Requirements revise first paragraph, second and third sentence for better clarification between the Nutrition Science and the Public Health Program:

All candidates for the dual degree must successfully complete Health and Society (Public Health 555), two credits of Seminar in Public Health (1 credit each—Public Health 509 and Nutrition 509), and a minimum of 60 credits. The Department of Nutrition will award a maximum of nine hours of credit toward the MS for successful completion of approved graduate-level courses offered by the Department of Instructional Technology, Health, and Educational Studies.

REVISE HUMAN ECOLOGY MAJOR (PHD) – NUTRITION SCIENCE CONCENTRATION

On page 147 of the 2005-2006 Graduate Catalog, revise to

- Students without college teaching experience are required to take the fall semester teaching seminar for GTAs.

DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION

REVISE MS TRACK 1 ART EDUCATION CONCENTRATION

On page 149 of the 2005-2006 Graduate Catalog revise footnote #1 of the Art Education Concentration (Thesis Option) • Track 1 and footnote #1 of the Art Education Concentration (Non-Thesis Option) • Track 1 as noted below:

Art Education Concentration (Thesis Option) and (Non-Thesis Option) • Track 1

¹Theory and Practice in Teacher Education 517; Curriculum, Educational Research, and Evaluation 580.

REVISE EDUCATIONAL ADMINISTRATION MAJOR (MS)

On page 149 of the 2005-2006 Graduate Catalog, 1st column, Requirements; Remove the Requirements showcase as indicated now and replace with:

Requirements	Hours Credit
¹ Core Requirements	12
² Specialization	15
³ Research	3
⁴ Internship	6
	Total 36

¹Educational Administration 513, 515, 548, 553.

²Educational Administration 523, 554, 583, 596; Theory and Practice in Teacher Education 595.

³Educational Administration 516.

⁴Educational Administration 580.

REVISE SPECIALIST IN EDUCATION - EDUCATIONAL ADMINISTRATION MAJOR

On page 151 of the 2005-2006 Graduate Catalog replace the existing text with

The department offers a Specialist in Education degree with a major in educational administration. This degree is designed for individuals who already possess a master’s degree in education. Exceptions may be made only by the faculty of the program to which the student is applying. This degree may be used to fulfill the course requirements for obtaining licensure as a school administrator.

Admission

Application forms must be completed and submitted by March 15. These include the Office of Graduate and International Admissions’ application and for those interested in licensure, the Educational Specialist in Educational Administration application. A graduate GPA of 3.2 or higher, documentation of teaching or related experience (a minimum of three years of school-related experience is needed for licensure as a school administrator), and three rating forms that assess a candidate’s strengths, weaknesses, leadership, and scholarly potential are required.

Requirements

The EdS with a major in educational administration requires a minimum of 45 hours of study. A final comprehensive examination is required as is a culminating research paper or thesis depending on the program.

	Hours Credit
¹ Core Requirements	12
² Specialization	15
³ Research	9
Internship	6
Educational Administration 580	3
	Total 45

¹Educational Administration 513, 515, 548, 553

²Educational Administration 523, 554, 583, 596; Theory and Practice in Teacher Education 595

³Educational Administration 516, *592; and an elective from outside the educational administration area chosen in consultation with advisor.

*A thesis option is available with approval of advisor.

REVISE SPECIALIST IN EDUCATION – TEACHER EDUCATION MAJOR

Replace existing introductory sentence with

The department offers a Specialist in Education degree with a major in teacher education. This degree is designed for those students who already possess a master’s degree in education. Exceptions may be made only by the faculty of the program to which the student is applying. The Specialist in Education with a major in teacher education encompasses concentrations in

Before the Requirements section, add the following Admission section

Admission

Candidates must complete both university and departmental applications, including the Office of Graduate and International Admissions’ application and the Teacher Education Specialist application from the department. A graduate GPA of 3.2 or higher, documentation of teaching or related experience, and three rating forms with recommendations that assess a candidate’s strengths, weaknesses, leadership, and scholarly potential are required. Some concentrations have specific application deadlines while others have a rolling admissions policy. Some concentrations require a minimum of three years of teaching or related experience. In addition, some concentrations have additional requirements such as writing samples, work samples, or interviews. The departmental EdS application, rating forms, specific program deadlines, and other requirements are available from the department.

Under the Requirements section, remove the first sentence.

⓪ DROP SCIENCE EDUCATION (ENVIRONMENTAL EDUCATION) CONCENTRATION – TRACK 1 (TEACHER EDUCATION MAJOR – MS)

⓪ ADD SCIENCE EDUCATION (INFORMAL EDUCATION) CONCENTRATION – TRACK 1 (TEACHER EDUCATION MAJOR – MS)

Science Education (Informal Education) Concentration • Track 1 (Thesis Option)

	Hours Credit
¹ Core	9
² Concentration	12
³ Related Studies	3
Thesis (Theory and Practice in Teacher Education 500).....	6
	Total 30

¹Curriculum, Educational Research, and Evaluation 580; Theory and Practice in Teacher Education 517; 3 hours determined by student and advisor.

²Science Education 506, 509, 510; 3 hours determined by student and advisor.

³Determined by student and advisor.

Science Education (Informal Education) Concentration • Track 1 (Non-Thesis Option)

	Hours Credit
¹ Core	12
² Concentration	15
³ Related Studies	6
	Total 33

¹Curriculum, Educational Research, and Evaluation 580; Theory and Practice in Teacher Education 517; 6 hours determined by student and advisor.

²Science Education 506, 509, 510; 6 hours determined by student and advisor.

³Determined by student and advisor.

⓪ DROP THE FOLLOWING CONCENTRATIONS AND SPECIALIZATIONS (EDUCATION MAJOR – PHD)

- Early Childhood Education concentration
 - early childhood special education specialization
- Educational Administration and Supervision
- Literacy Language and ESL Education
 - literacy specialization
 - language education specialization
 - ESL education specialization

⓪ ADD THE FOLLOWING CONCENTRATIONS AND SPECIALIZATIONS (EDUCATION MAJOR – PHD)

- Leadership studies in education concentration
- Literacy studies concentration
 - ESL specialization
 - reading specialization
- Special education concentration

⓪ ADD THE FOLLOWING SPECIALIZATIONS FOR THE TEACHER EDUCATION CONCENTRATION (EDUCATION MAJOR – PHD)

- early childhood education specialization
- English education specialization

REVISE CATALOG TEXT TO REFLECT THE ABOVE CHANGES

On page 152 of the 2005-2006 Graduate Catalog revise TO

Doctor of Philosophy

- Education major
 - Leadership studies in education concentration
 - Literacy studies concentration
 - Special education concentration
 - Teacher education concentration

On pages 152-153 of the 2005-2006 Graduate Catalog revise the Doctor of Philosophy - Education Major to

DOCTOR OF PHILOSOPHY

Education Major

Faculty from the department participate in the delivery of the PhD with a major in education. Concentrations and specializations are available in the following areas.

- Leadership studies in education
- Literacy studies (ESL, reading)
Special education
- Teacher education (early childhood education, elementary education, English education, mathematics education, science education, social science education)

Information on admission appears at the beginning of the College of Education, Health, and Human Sciences section of this catalog.

Leadership Studies in Education, Literacy Studies, Special Education, and Teacher Education Concentrations

Students in these concentrations share a common set of course requirements with credits required as shown below.

Doctoral committees may require students to take additional hours to fulfill degree requirements.

	Hours Credit
*Research Area.....	15
**Core Requirements.....	8
Concentration/Specialization	15
Cognate	6
Dissertation	24

Note: Please refer to the academic department for additional information on course requirements in each of these areas.

*Must include Theory and Practice in Teacher Education 640 (3) or Educational Administration 640 (3).

**Seminar in Primary Concentration (3); Theory and Practice in Teacher Education 604, 605, 617.

Admission

Students must submit the University of Tennessee, Knoxville, Graduate Application for Admission and the TPTE Departmental Application for Graduate Study. Applicants must submit current (taken within the past 5 years) GRE scores that equal or exceed the minimums expected for applicants to the PhD with a major in Education. Three letters of reference from those who know of the candidate's record and promise are required. An overall GPA of 3.3 in previous graduate study is required for admission to doctoral study and an interview with the faculty may be required. Admissions decisions are made on a holistic basis to discern the candidate's promise for doctoral study and to ascertain the match of the candidate's educational goals with the resources and goals of the department.

COLLEGE OF ENGINEERING

All changes effective Fall 2006

I. COURSE CHANGES**DEPARTMENT OF CHEMICAL ENGINEERING****(226) Chemical Engineering**

ADD SECONDARY CROSS-LISTED COURSE

556 Data Mining in Engineering and Manufacturing (3) (*See Industrial Engineering 556.*)

REVISE TO CROSS-LIST PRIMARY COURSE

561 Application of Multivariate Statistics to Process Modeling and Data Analysis (3) (*Same as Industrial Engineering 561.*)

REVISE TO ADD CROSS-LISTING TO PRIMARY COURSE

507 Application of Linear Algebra in Engineering Systems (3) (*Same as Biomedical Engineering 507; Electrical and Computer Engineering 507; Industrial Engineering 507; Materials Science and Engineering 507; Mechanical Engineering 507.*)**DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING****(254) Civil Engineering**

ADD

550 Transportation Seminar (1) Seminar topics in transportation engineering. Research contributions and case histories by graduate students and engineers and scientists from the professional community.*Grading Restriction: Satisfactory/No Credit grading only.**Repeatability: May be repeated. Maximum 10 hours.**Comment(s): Minimum student level – senior.**Registration Permission: consent of instructor.***559 Intermodal Transportation (3)** Technical and institutional aspects of intermodal transportation system for passengers and freight providing intercity and urban service; characteristics of individual modes and strategies for their coordination; functional design and operation of transportation terminals including seaports and air cargo terminals; safety and security issues.*Comment(s): minimum student level – senior.*

DROP

452 Traffic Engineering (3)

REVISE DESCRIPTION, ADD (DE) PREREQUISITE, AND REMOVE COMMENTS

551 Traffic Engineering: Characteristics (3) Characteristics of human, vehicle, and roadway in transportation system; microscopic and macroscopic traffic models; elements of transportation/highway safety.*(DE) Prerequisite(s): 352.*

REVISE DESCRIPTION AND (DE) PREREQUISITE

552 Traffic Engineering: Operations (3) Operation and management of the surface transportation system including freeways and arterials; traffic control systems including traffic signal design and operation; traffic control devices including signing and markings.*(DE) Prerequisite(s): 551.*

REVISE DESCRIPTION AND (DE) PREREQUISITE, ADD CONTACT HOUR DISTRIBUTION

557 Transportation Planning and Operations with Micro-Computer Applications (3) Hands-on laboratory and field experiences in computer and information technology for modeling and analysis of transportation problems.*Contact Hour Distribution: lecture and lab.**(DE) Prerequisite(s): 551.*

REVISE DESCRIPTION, REMOVE (DE) PREREQUISITE, AND ADD REGISTRATION PERMISSION

651 Analysis Techniques for Transportation Systems I (3) Topics on mathematical, statistical, operations research, or computer science techniques that may be applied to modeling and analysis of transportation systems.

Registration Permission: consent of instructor.

(344) Environmental Engineering

REVISE TO ADD REPETITION

508 Seminar (1)

Repeatability: May be repeated. Maximum 10 hours.

DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

(556) Industrial Engineering

ADD SECONDARY CROSS LISTED COURSE

507 Application of Linear Algebra in Engineering Systems (3) *(See Chemical Engineering 507.)*

561 Application of Multivariate Statistics to Process Modeling and Data Analysis (3) *(See Chemical Engineering 561.)*

REVISE TO CROSS LIST PRIMARY COURSE

556 Data Mining in Engineering and Manufacturing (3) *(Same as Chemical Engineering 556.)*

DEPARTMENT OF MECHANICAL, AEROSPACE, AND BIOMEDICAL ENGINEERING

(018) Aerospace Engineering

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

572 Computational Fluid-Thermal Systems (3) *(See Engineering Science 552.)*

662 Advanced Computational Fluid Dynamics Practice (3) *(See Engineering Science 652.)*

(192) Biomedical Engineering

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

562 Computational Fluid-Thermal Systems (3) *(See Engineering Science 552.)*

(335) Engineering Science

REVISE TITLE AND DESCRIPTION OF PRIMARY COURSE

552 Computational Fluid-Thermal Systems (3) Modern approximation theory applied to incompressible-thermal flows. Navier-Stokes equations, well-posedness, boundary conditions, non-dimensional groups, conjugate heat transfer, algebraic/differential closure models for turbulence. Weak forms, extremization, finite element/finite volume discrete implementations, *a priori* error estimates, accuracy, convergence, stability. Numerical linear algebra, sparse matrix methods. Applications in boundary layers, streamfunction-vorticity, pressure projection, free-surface, pseudo-compressibility completion theories. Solution-adaptive h- and r-meshing, optimal solution estimates. Augmentation theories for stability, numerical diffusion, Fourier spectral analyses, optimal forms. Computer projects.

REVISE DESCRIPTION OF PRIMARY COURSE

551 Finite Elements for Engineering Applications (3) Modern computational theory applied to conservation principles across the engineering sciences. Weak forms, extremization, boundary conditions, discrete implementation via finite element, finite difference, finite volume methods. Asymptotic error estimates, accuracy, convergence, stability. Linear problem applications in 1, 2 and 3 dimensions, extensions to non-linearity, non-smooth data, unsteady, spectral analysis techniques, coupled equation systems. Computer projects in heat transfer, structural mechanics, mechanical vibrations, fluid mechanics, heat/mass transport.

553 Computational Solid Mechanics (3) Finite element techniques in structural mechanics and linear elasticity. Energy method and weak form formulations; isoparametric elements, numerical quadrature. Equation solving, matrix iteration techniques. Applications in beams, plates and shells; use of representative commercial finite element software.

REVISE DESCRIPTION OF PRIMARY COURSE AND PREREQUISITE

645 Theory of Turbulence (3) Mathematical foundations for turbulent flow characterization, energy spectra, Kolmogorov hypothesis, eddy cascade structure, turbulent diffusion concept. Time averaging, Reynolds stress tensor, similarity solutions, algebraic and differential turbulence closure models. Space filtering, large eddy simulation (LES) theory, various filter concepts, approximations, Fourier transforms, Reynolds stress tensor extensions. Smagorinsky, multi-scale, Gaussian closure models for unsteady time-accurate LES CFD. Applications in external and internal flows. Computer projects.

(DE) Prerequisite(s): 552.

651 Advanced Topics in Computational Fluid Dynamics (3) Modern approximation theory for Euler and Navier-Stokes conservation systems, compressible flow, hyperbolic forms, boundary conditions. Weak forms, extremization, finite element/finite volume/flux vector discrete implementations, *a priori* error estimates, accuracy, convergence, stability. Numerical linear algebra, approximate factorization, sparse matrix methods. Dissipation, Fourier spectral analysis, smooth and non-smooth solutions.

(DE) Prerequisite(s): 552.

REVISE TITLE AND DESCRIPTION OF PRIMARY COURSE AND (DE) PREREQUISITE

652 Advanced Computational Fluid Dynamics Practice (3) Applications of modern CFD theory and code practice for Euler and Navier-Stokes conservation systems. Computer projects in incompressible/compressible flow, viscous, turbulent, reacting and/or inviscid/potential subsonic to hypersonic flows.

(DE) Prerequisite(s): 645 and 651.

(650) Mechanical Engineering

ADD

540 Perturbation Methods in Engineering (3) Solution of nonlinear problems in solid and fluid mechanics and dynamics by use of asymptotic perturbation techniques. Asymptotic expansions, regular and singular perturbations and applications in dynamics, celestial mechanics, potential, viscous and compressible flows. Uniformly valid approximations in various physical problems. Generalized boundary-layer techniques. Coordinate straining techniques; Poincaré's method. Matched asymptotic expansions and multiple scales. Problems with several time or length scales. Examples taken from various fields of science.

Registration Permission: consent of instructor.

615 Engineering Optics and Optical Techniques (3) Closely related optical theories to engineering applications for advanced optical measurements and diagnostic techniques. This course also provides knowledge for researchers in the areas of micro/nano/bio-fluidics and energy transport using and developing optical techniques.

Registration Permission: consent of instructor.

645 Hydrodynamic Instability (3) Theory of hydrodynamic instability. Stability of shear flows, rotating flows, boundary layer, two fluid flows, capillary instability, convective/absolute stability. Normal mode analysis, energy theory of stability, linear stability analysis. Raleigh-Bénard, Taylor, Raleigh-Taylor, Kevin-Helmholtz, Görtler instability. Orr-Sommerfeld equation, bifurcation theory, and transition to turbulence.

(DE) Prerequisite(s): 540 and 542.

REVISE TITLE OF SECONDARY CROSS-LISTED COURSE

562 Computational Fluid-Thermal Systems (3) *(See Engineering Science 552.)*

652 Advanced Computational Fluid Dynamics Practice (3) *(See Engineering Science 652.)*

REVISE TITLE, DESCRIPTION, AND REQUEST APPROVAL FOR VARIABLE TITLE

610 Advanced Topics in Thermal/Fluid Science (3) Advanced theory and applications in the thermal/fluid sciences.

REVISE PREREQUISITE

587 Dynamic Modeling and Simulation (3)

(DE) Prerequisite(s): 363.

DEPARTMENT OF NUCLEAR ENGINEERING**(716) Nuclear Engineering**

REVISE TO ADD (DE) PREREQUISITE AND REGISTRATION PERMISSION; REMOVE COMMENT

579 Advanced Monitoring and Diagnostic Techniques (3)

(DE) Prerequisite(s): Statistics 571.

Registration Permission: consent of instructor.

REVISE DESCRIPTION

582 Monte Carlo Analysis (3) General overview of the Monte Carlo Method for solving problems in physics and engineering. Random sampling, evaluation of integrals, analog particle transport, techniques of variance reduction, forward and adjoint modes of analysis, importance function biasing, splitting/weight window survival biasing and contribution theory. Particular emphasis on solving neutral particle radiation transport problems using the MCNP code system.

REVISE DESCRIPTION AND (DE) PREREQUISITE, ADD REGISTRATION PERMISSION

653 Theory of Information Processing (3) Modern system theoretical methods for evaluating system performance from dynamic measurements. Univariate and multivariate stochastic modeling, Kalman filtering, short-term Fourier transform (STFT), wavelet and Hilbert-Huang transforms, and statistical decision-making.

*(DE) Prerequisite(s): Statistics 571.
Registration Permission: consent of instructor.*

II. PROGRAM CHANGES

DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

REVISE INDUSTRIAL ENGINEERING MAJOR (PHD)

On page 163 of the 2005-2006 Graduate Catalog, revise catalog statement to change the minimum requirement for total credit hours in coursework from 48 to 36.

Requirements

The total program of study requires a minimum of 72 graduate hours beyond the bachelor's degree, exclusive of credit for the master's thesis. This includes a minimum of 36 graduate hours of coursework beyond the bachelor's degree and 24-36 hours of doctoral research and dissertation work. For a master's program completed at another institution or in another field, the requirement may exceed the 36 hours of coursework (other than research and dissertation) dependent on the previous program of study.

DEPARTMENT OF MECHANICAL, AEROSPACE, AND BIOMEDICAL ENGINEERING

REVISE CATALOG TEXT

On page 166 of the 2005-2006 Graduate Catalog, revise first paragraph, first sentence to:

Graduate programs leading to the Master of Science and Doctor of Philosophy are available with majors in mechanical engineering, aerospace engineering, biomedical engineering and engineering science.

REVISE DUAL MS-MBA - MECHANICAL ENGINEERING MAJOR

On page 168 of the 2005-2006 Graduate Catalog, revise Curriculum showcase for MS-MBA Degree; Mechanical Engineering Major to

Fall—Second Year

Remove ME 551 (3), 527 (3), 537 (3)
Add departmental engineering courses (9)
Mechanical Engineering 509..... 1
Departmental/Engineering Courses..... 9

Spring

Remove ME 505 (3), 510 (3)
Add departmental engineering courses (6)
MBA Hub Course Elective 3
Departmental/Engineering Courses..... 6
Mechanical Engineering 509 1
Math/Engineering Elective (select with advisor) 3

DEPARTMENT OF NUCLEAR ENGINEERING

REVISE REQUIREMENTS FOR THE NUCLEAR ENGINEERING MAJOR (MS)

On Page 170 of the 2005/2006 Graduate Catalog, 1st column, 2nd bullet under Requirements revise to:
A minor consisting of six hours of elective courses in mathematics or statistics.

On Page 171 of the 2005/2006 Graduate Catalog, 2nd column, 4th bullet under Requirements revise to:
A minimum of 12 hours in mathematics or statistics courses beyond nuclear engineering undergraduate requirements numbered 400 or above.

COLLEGE OF LAW

Change effective Fall 2006 for Fall 2005 entering class

II. PROGRAM CHANGES

REVISE CONCENTRATION IN ADVOCACY AND DISPUTE RESOLUTION

On page 174 of the 2005-2006 Graduate Catalog, revise to

Students interested in a concentration in advocacy and dispute resolution must complete the following courses:

Second Year Fall Semester – 813, 920.

Third Year (one of the following) – 905, 908 and 914 or 947.

During the second and third year, any combination totaling 12 credit hours from the following courses – 821, 855, 877, 915, 916, 918, 921, 922, 923, 927, 990*, 991*. (*Only if approved by the Dean or Dean's designee as satisfying the requirements of the concentration.)

COLLEGE OF NURSING

All curriculum changes effective Fall 2006

I. COURSE CHANGES

(720) Nursing

Informational Item for Curriculum only. Will not be included in catalog.

Note: Within the Women and Children concentration, students are prepared in one of the clinical specialties: women's health, child health, or neonatal health. These 12 new courses largely represent a reconfiguration of currently approved courses in this concentration (550 and 551). The reconfiguration is needed to a) more clearly articulate didactic content and clinical components required by national standards of specialty practice, national certifying bodies, and national accrediting agencies, and b) to allow post-graduate nurses seeking a post-master's certificate in an additional specialty, to register for the specific courses needed. Students enrolled in the Women and Children concentration in the future will incur a net gain of only 2 credits over students who began this concentration in August 2004. See table below.

Current Configuration	New Configuration
550 (8 cr.) & 551 (8 cr.) Plus 3-credit developmental theories course for Child Health specialty Plus 552 (3 cr.) for Neonatal Health specialty	Concentration Core Courses: 550 (2 cr.) & 551 (2 cr.) Specialty Didactic Courses Women's Health (554, 555, 556) (6 cr.) Child Health (528, 562, 563) (6 cr.) Neonatal Health* (568, 569, 552) (6 cr.) Specialty Clinical Courses Women's Health (553) (10 cr.) Child Health (527) (10 cr.) Neonatal Health (564) (10 cr.) * Neonatal Health specialty also requires 567 (Embryology) which substitutes for the MSN requirement of 515.
16 – 19 credits	20 credits

ADD

553 Nursing Care of Women and Children: Clinical Experience in Women's Health (1-5) Clinical experience in the role of women's health care nurse practitioner or clinical nurse specialist in a variety of health care settings serving women.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 15 hours.

(RE) Corequisite(s): 550 or 551.

554 Care of the Well Woman and Minor Acute Illnesses (2) Comprehensive and preventative care for the well woman and the woman with minor acute conditions. Focus is on women of all ages.

(RE) Corequisite(s): 550.

555 Care of the Pregnant Woman (2) Physiology and pathophysiology of the pregnant woman. Recommended advanced nursing interventions in selected conditions. Focus is on the pregnant and newly delivered woman.

(RE) Corequisite(s): 550.

556 Care of Complex Health Problems in Women (2) Physiology and pathophysiology of the complex health problems common in women and the pregnant woman. Recommended advanced nursing interventions in selected health problems.

(RE) Corequisite(s): 551.

527 Nursing of Women and Children: Clinical Experience in Children's Health (1-5) Clinical experience in the role of pediatric nurse practitioner or clinical nurse specialist in variety of health care settings serving children.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 15 hours.

(RE) Corequisite(s): 550 or 551.

528 Well Child Care: Assessment of Growth, Development, and Behavior (2) Comprehensive and preventative care for the well child. Appropriate screening tools and related development theories. Focus is on the well child ages 0 to 21 years.

(RE) Corequisite(s): 550 and 527.

562 Acute Illnesses in Children (2) Physiology and pathophysiology of acute minor illnesses in children and the recommended interventions in selected conditions for the APN. Focus is on ill children ages 0 to 21 years.

(RE) Corequisite(s): 550.

563 Care of the Child with a Chronic Condition (2) Physiology and pathophysiology of chronic illnesses in children and the recommended interventions in selected conditions for the APN. Focus is on chronically ill children ages 0 to 21 years.

(RE) Corequisite(s): 551.

564 Nursing of Women and Children: Clinical Experience in Infant's Health (1-5) Clinical experience in the role of neonatal nurse practitioner or clinical nurse specialist in a Level III intensive care nursery.

Grading Restriction: Satisfactory/No Credit grading only.

Repeatability: May be repeated. Maximum 15 hours.

(RE) Corequisite(s): 550 or 551.

567 Embryology and Neonatal Pathophysiology for Advanced Neonatal Nursing Practice (3) Pathophysiologic challenges confronting infants born at preterm gestation and neonates with clinical disorders arising from alterations in embryogenesis. Emphasis on the role of neonatal advanced practice nurses in assessing subtle changes in the clinical condition in these infants.

(RE) Corequisite(s): 504 and 505.

568 Care of the Neonate (2) Physiology and pathophysiology of the neonate and the recommended interventions in selected conditions for the advanced practice nurse. Focus is on the well infant and health consequences of congenital conditions, prematurity and illness.

(RE) Corequisite(s): 550.

569 Care of the Ill Neonate (2) Physiology and pathophysiology of the neonate and the recommended interventions in selected conditions for the advanced practice nurse. Focus is on the ill neonate.

(RE) Corequisite(s): 550.

REVISE HOURS AND DESCRIPTION, DROP (DE) PREREQUISITES AND CONTACT HOUR DISTRIBUTION, ADD (RE) PREREQUISITE(S) AND (DE) COREQUISITE(S)

550 Nursing of Women and Children I (2) Advanced practice nursing of women, infants and children; health promotion and nursing interventions for actual or potential health problems of women, children, and families.

(RE) Prerequisite(s): 504 and 505.

(RE) Corequisite(s): 507.

(DE) Corequisite(s): 553 or 527 or 564.

551 Nursing of Women and Children II (2) Continuation of 550. Advanced practice nursing of women, infants and children; role refinement of nurse practitioner or clinical specialist in health maintenance and restoration for women, children, and families.

(RE) Prerequisite(s): 550 and 501.

(DE) Corequisite(s): 553 or 527 or 564.

552 Care of the Critically Ill Neonate (2) Advanced practice nursing of women, infants and children; health promotion and nursing interventions for actual or potential health problems of women, children, and families.

(RE) Prerequisite(s): 550.

REVISE TITLE AND CONTACT HOUR DISTRIBUTION

533 Homeland Security I (5)

Contact Hour Distribution: 2 didactic and 3 practicum/field supervision.

REVISE TITLE AND CONTACT HOUR DISTRIBUTION; DROP (DE) PREREQUISITE(S); ADD (RE) PREREQUISITE(S)

534 Homeland Security II (5)

Contact Hour Distribution: 2 didactic and 3 practicum/field supervision.

(RE) Prerequisite(s): 533.

535 Homeland Security III (7)

Contact Hour Distribution: 2 didactic and 5 practicum/field supervision.
(RE) Prerequisite(s): 534.

REVISE TITLE AND CONTACT HOUR DISTRIBUTION; DROP (DE) PREREQUISITE(S); ADD (RE) PREREQUISITE(S); AND REGISTRATION RESTRICTION

536 Homeland Security IV (8)

Contact Hour Distribution: 2 didactic and 6 practicum/field supervision.
(RE) Prerequisite(s): 535.
Registration Restriction(s): Master of Science in Nursing, nursing major.

REVISE HOURS AND ADD REPETITION; DELETE (DE) PREREQUISITE AND ADD (RE) PREREQUISITE

614 Nursing Preceptorship (1-3)

Repeatability: May be repeated. Maximum 6 hours.
(RE) Prerequisite(s): 601.

REVISE TO ADD REGISTRATION RESTRICTION

500 Thesis (1-15)

Registration Restriction(s): Master of Science in Nursing, nursing major.

507 Concepts for Advanced Practice Nursing: Health Promotion and Health Policy (4)

Registration Restriction(s): Master of Science in Nursing, nursing major.

523 Advanced Principles of Nurse Anesthesia Practice (2)

Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

524 Basic Principles of Anesthesia I (3)

Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

525 Basic Principles of Anesthesia II (3)

Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

526 Professional Issues in Nurse Anesthesia (2)

Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

600 Doctoral Research and Dissertation (3-15)

Registration Restriction: Doctor of Philosophy, nursing major.

601 Philosophy and Theory for Nursing Science (3)

Registration Restriction: Doctor of Philosophy, nursing major.

REVISE TO ADD REGISTRATION RESTRICTION AND REMOVE COMMENT

504 Advanced Health/Physical Assessment (3)

Registration Restriction(s): Master of Science in Nursing, nursing major.

REVISE TO DROP (DE) PREREQUISITES; ADD (RE) PREREQUISITE AND REGISTRATION RESTRICTION

506 Advanced Anesthesia Pharmacology (3)

(RE) Prerequisite(s): 505.
Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

516 Advanced Pathophysiology: Neurological/Cardiovascular with Anesthesia Implications (2)

(RE) Prerequisite(s): 524 and 525.
Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

517 Advanced Pathophysiology: Respiratory/Renal with Anesthesia Implications (2)

(RE) Prerequisite(s): 524 and 525.
Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

518 Advanced Pathophysiology: Obstetrics/Regional Anesthesia (2)

(RE) Prerequisite(s): 524 and 525.
Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

531 Adult Health Nursing II (7)

(RE) Prerequisite(s): 530 and 501.
Registration Restriction(s): Master of Science in Nursing, nursing major.

REVISE (DE) PREREQUISITE AND ADD REGISTRATION RESTRICTION

522 Integrated Health Science for Anesthesia (3)

(DE) Prerequisite(s) or (DE) Corequisite(s): 524.

Registration Restriction(s): Master of Science in Nursing, nursing major; nurse anesthesia concentration.

REVISE (DE) PREREQUISITE(S); ADD (RE) PREREQUISITE(S) AND REGISTRATION RESTRICTION

530 Adult Health Nursing I (6)

(RE) Prerequisite(s): 504 and 505.

(DE) Prerequisite(s): 515.

(DE) Prerequisite(s) or (DE) Corequisite(s): 507.

Registration Restriction(s): Master of Science in Nursing, nursing major.

REVISE TO REMOVE (DE) PREREQUISITE(S) AND (DE) COREQUISITE(S)

532 Homeland Security Threats (3)

REVISE TO DROP (DE) PREREQUISITE(S) AND COMMENTS; ADD (RE) PREREQUISITES, AND REGISTRATION RESTRICTION

545 Clinical Nurse Anesthesia Practicum/Seminar II (2-11)

(RE) Prerequisite(s): 544.

Registration Restriction(s): Master of Science in Nursing, nursing major, nurse anesthesia concentration.

REVISE TO REMOVE COMMENT

510 Theoretical Foundations of Nursing (3)

REVISE TO REMOVE COMMENTS, ADD (RE) PREREQUISITE(S) AND REGISTRATION RESTRICTION

546 Clinical Nurse Anesthesia Practicum/Seminar III (2-11)

(RE) Prerequisite(s): 545.

Registration Restriction(s): Master of Science in Nursing, nursing major, nurse anesthesia concentration.

547 Clinical Nurse Anesthesia Practicum/Seminar IV (2-11)

(RE) Prerequisite(s): 546.

Registration Restriction(s): Master of Science in Nursing, nursing major, nurse anesthesia concentration.

548 Clinical Nurse Anesthesia Practicum/Seminar V (2-11)

(RE) Prerequisite(s): 547.

Registration Restriction(s): Master of Science in Nursing, nursing major, nurse anesthesia concentration.

549 Clinical Nurse Anesthesia Practicum/Seminar VI (2-11)

(RE) Prerequisite(s): 548.

Registration Restriction(s): Master of Science in Nursing, nursing major, nurse anesthesia concentration.

REVISE (DE) PREREQUISITES AND ADD (RE) PREREQUISITES

560 Mental Health Nursing I (6)

(RE) Prerequisite(s): 504.

(DE) Prerequisite(s): 505 and 515.

570 Family Nurse Practitioner I (6)

(RE) Prerequisite(s): 504.

(DE) Prerequisite(s): 505 and 515.

REVISE TO DROP (DE) PREREQUISITE(S) AND ADD (RE) PREREQUISITE(S)

561 Mental Health Nursing II (7)

(RE) Prerequisite(s): 560 and 501.

608 Quantitative Nursing Research (3)

(RE) Prerequisite(s): 603.

571 Family Nurse Practitioner II (3)

(RE) Prerequisite(s): 570.

572 Family Nurse Practitioner II Clinical (2)

(RE) Prerequisite(s): 571.

573 Family Nurse Practitioner III (8)

(RE) Prerequisite(s): 501 and 572.

590 Nursing Administration: Macro-Analysis (6)
(RE) Prerequisite(s): 510.

591 Nursing Administration: Micro-Analysis (6)
(RE) Prerequisite(s): 510.

REVISE (DE) PREREQUISITE

565 Teaching Practicum (1-6)
(DE) Prerequisite or (DE) Corequisite: 566.

REVISE TO DROP (DE) PREREQUISITE AND ADD (RE) PREREQUISITE

603 Nursing Research and Inquiry (3)
(RE) Prerequisite(s): 601.

607 Qualitative Nursing Research (3)
(RE) Prerequisite(s): 603.

REVISE TO DROP (DE) PREREQUISITE; ADD (RE) PREREQUISITE AND ADD RECOMMENDED BACKGROUND

605 Middle-Range Theoretical Formulations for Nursing Science Development (3)
(RE) Prerequisite(s): 603.
Recommended Background: inferential statistics course.

REMOVE COMMENTS, ADD REGISTRATION RESTRICTION

610 Nursing Science Seminar (2)
Registration Restriction(s): Doctor of Philosophy, nursing major.

II. PROGRAM CHANGES

REVISE NURSING MAJOR (MSN)

Page 178, second column of the 2005/2006 Catalog, Program Requirements – Revise sentence under course 515 to: (not required for nurse anesthesia students or neonatal students)

Page 179, first column, under Concentration (choose one) – Remove 550-551 Nursing of Women and Children I, II....16
Replace with:

550-551-553-554-555-556 Nursing of Women and Children: Women’s Health	20
550-551-527-528-562-563 Nursing of Women and Children: Child Health	20
550-551-552-564-568-569 Nursing of Women and Children: Neonatal Health.....	20

Page 179, Revise first showcase that begins “students who enter the program as non-RNs must complete the following

311 Foundations of Professional Nursing Practice	5
319 Pathophysiology of Health Deviations	4
333 Health Assessment.....	3
341 Transcultural Nursing.....	2
351 Pharmacology I.....	2
361 Health Maintenance and Restoration: Adult	5
406 Pharmacology II.....	2
415 Nursing the Childbearing Family.....	4
421 Health Maintenance and Restoration in Mental Health	5
432 Health Promotion, Maintenance, Restoration in the Community	3
444 Care of Children, Adolescents, and Their Families	3
454 Professional Leadership Issues	2
461 Health Restoration: Adult.....	4

Page 179, Revise second showcase and last sentence of heading for second showcase to

Registered nurses whose bachelor’s degrees are not in nursing must have completed courses in chemistry, nutrition, microbiology, anatomy, and physiology plus 12 hours of behavioral science courses. They must also complete 305, 382, and 454, and complete or successfully challenge the following:

311 Foundations of Professional Nursing Practice	5
319 Pathophysiology of Health Deviations	4
333 Health Assessment.....	3
351 Pharmacology	2
361 Health Maintenance and Restoration: Adult	5
403 Health Promotion and Restoration 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

461 Health Restoration: Adult..... 4

490 Specialty Preceptorship 4

Page 180, Revise section entitled Bachelor of Science in Nursing Courses, second bullet

RN students will take the NLN Acceleration Challenge Exams prior to starting upper division coursework. If a decision score of 100 is achieved (per section), the student will receive proficiency credit for Nursing 361, 403, 404, 421, and 461.

Page 180, Remove showcases and add the following section to replace showcases.

RN-MSN students will complete (or challenge*) the following courses, prior to beginning MSN courses:

305 Transition to Professional Nursing..... 4

*319 Pathophysiology of Health Deviations..... 4

*333 Health Assessment 3

*351 Pharmacology..... 2

382 Health Promotion and Maintenance in Community 5

*406 Pharmacology II..... 2

454 Professional Leadership Issues..... 2

511 Statistical Applications to Nursing Research (OR equivalent)..... 3