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1-29-2004

Graduate Council Minutes - January 29, 2004

Graduate Council

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UNIVERSITY OF TENNESSEE

Members Present

Robert Augé, Roberto Benson, Stephen Blackwell, Jon Coddington, Kathleen Davis, Ray DeGennaro, Charles Feigerle, Greer Fox, Paul Frymier, Nan Gaylord, Thomas George, George Hoemann, Karla Matteson, Anne Mayhew, Mary McAlpin, Sally McMillan, Barbara Moore, Laurel Morton, Trevor Moulden, Naima Moustaid-Moussa, Matthew Murray, Stefanie Ohnesorg, Mary Papke, Linda Phillips, Lloyd Rinehart, Mary Rogge, Patrick Schuneman, Otto Schwarz, Susan Smith, Thomas Turner, Belle Upadhyaya, Luther Wilhelm, Handel Wright.

Others Attending:

James Brace, Veterinary Medicine; Thomas Burman, History; Charles Hamilton, Public Health.

Charles Feigerle, Chair, called the Graduate Council of the University of Tennessee to order at 3:00 p.m., Thursday, January 29, 2004 in the 8th Floor Board Room.

1. Minutes of the Preceding Meeting

The minutes of the November 20, 2003 meeting were approved with a correction to include Nan Gaylord's name in the list of Members Present.

2. Committee ReportsAcademic Policy Committee

Stefanie Ohnesorg, Academic Policy Committee Chair, presented the report from the January 15, 2004, meeting. The committee recommended that the Graduate Council approve the following changes:

- Course 600 Doctoral Research and Dissertation

Change "Continuous Registration" section, page 23, 2003-2004 Graduate Catalog:

REVISE SECTION TITLE:

FROM: Continuous Registration

TO: Registration for Course 600 and Continuous Registration

REVISE TEXT IN FIRST PARAGRAPH:

FROM:

The student must register continuously for course 600 (minimum of 3 hours) from the time the doctoral research proposal is approved, admission to candidacy is accepted, or registration for course 600 is begun, whichever comes first, including summer semester and the semester in which the dissertation is approved and accepted by Graduate

Student Services. A minimum total of 24 hours of course 600 is required before the dissertation will be accepted.

TO:

Course 600 is reserved for doctoral research and dissertation hours. Initial registration for 600 should be determined by each department and generally corresponds to the time at which a student begins work actively on dissertation research. From this time on, students are required to register continuously for at least 3 hours of 600 each semester, including summer term. A minimum total of 24 hours of course 600 is required.

Change "Dissertation" section, page 23, 2003-2004 Graduate Catalog:

REVISE TEXT IN SECOND PARAGRAPH:

FROM:

A student should be registered for the number of dissertation hours representing the fraction of effort devoted to this phase of the candidate's program. Thus, a student working full time on the dissertation should register for 12 hours of course 600 per semester.

TO:

A student should be registered for the number of dissertation hours representing the fraction of effort devoted to this phase of the candidate's program.

- Graduate Certificate Programs

CHANGE the phrase "Graduate Certificate of Credit" to "Graduate Certificate" in the appropriate places of the 2003-2004 Graduate Catalog on pages 2, 14, and 16.

REVISE FIRST SENTENCE IN FIRST PARAGRAPH, "Graduate Certificate of Credit Programs" section, page 16:

FROM:

A graduate certificate of credit program is a series of academically coherent graduate-credit courses offered by the university as a planned program that does not lead to a degree.

TO:

A graduate certificate may be earned by successful completion of a series of specific courses.

Council approved these changes, effective with the 2004-2005 Graduate Catalog.

Credentials Committee

Kathleen Davis, Credentials Committee Chair, noted that the committee did not have a report because it had not met prior to Graduate Council.

Curriculum Committee

Paul Frymier, Curriculum Committee Chair, reported on the January 15, 2004, meeting.

The Curriculum Committee recommended the curricular changes as presented from the following colleges (See Attachment 1):

- College of Agricultural Sciences and Natural Resources
- College of Arts and Sciences
- College of Business Administration
- College of Communication and Information
- College of Education, Health, and Human Sciences
- College of Engineering
- College of Nursing
- College of Veterinary Medicine

Council approved these changes as presented.

3. Announcements

- Report of the Graduate Dean.

Anne Mayhew, Dean of Graduate Studies, noted the following items:
Graduate Coordinators Workshop, February 4, 2004, 1:30 – 3:30 p.m., meeting in the Shiloh Room of the University Center.

New Associate Dean of Graduate Studies is Mary E. Papke, whose office will be located in Graduate Student Services, P105 Andy Holt Tower. Mayhew noted that requests for exceptions normally addressed to the Dean of Graduate Studies should now come to Papke.

Review and Redirection Task Force reports are finished on two programs and in progress on a third program. Curriculum changes resulting from these reviews will be forwarded to the Undergraduate and Graduate Councils as the recommendations are processed and integrated through the units and colleges.

- Report of the Graduate Student Senate (GSS).

Patrick Schuneman, Graduate Student Senate President, reported that the GSS "Love Your Libraries" Fun Run is scheduled for Saturday, February 14, 2004. Laurie Morton noted that the run is a benefit to support University Libraries, with all proceeds earmarked for electronic journals.

- Report from Chair on Nominating Committee.

Feigerle noted that the Graduate Council would hold an election for a new chair to serve during the next two academic years. He appointed the following members to serve as the Nominating Committee: Robert Auge, Kathleen Davis, and Mary Rogge. The Nominating Committee was charged to solicit nominations

from among the eligible Graduate Council members and to bring a slate of two nominees to present to Council at the March meeting.

4. Other Business

Feigerle reported that the Faculty Senate is reviewing the Faculty Handbook for adopting proposed changes.

The meeting adjourned at 3:45 p.m.

Respectfully Submitted,

Tammy L. Phelps
Secretary to the Council

Attachment 1**MEMORANDUM**

TO: Graduate Council

FROM: Mary Lewnes Albrecht
Associate Dean for Academic Programs
College of Agricultural Sciences and Natural Resources

DATE: December 9, 2003

RE: Graduate Curricular Changes – College of Agricultural Sciences and Natural Resources

The attached curricular changes were approved by the faculty of the CASNR and are submitted to the Graduate Council for consideration. The following is a summary of these proposals:

Agricultural Science and Natural Resources: Revise one course.

Agricultural Economics: Revise one course description, revise course format for two courses and add one course.

Rural Sociology: Drop one course; revise cross-listed course.

Animal Science: Revise seminar requirement for MS and PhD students. Revise two courses.

Biosystems Engineering and Environmental Science:

Biosystems Engineering: Revise (drop 421/add 416). Drop two courses, add and cross-list three courses, and revise seminar requirement for MS and PhD students (making it the same for all graduate degree programs in the department).

Biosystems Engineering Technology: Add and cross-list one course and drop two courses to revise seminar requirement for MS students (making it the same for all graduate degree programs in the department). Revise two courses.

Environmental and Soil Sciences: Drop two courses, add and cross-list two courses, and revise seminar requirement for MS and PhD students (making it the same for all graduate degree programs in the department).

Entomology and Plant Pathology: Revise six courses; add and cross-list one course.

Food Science and Technology: Revise grading option for seminar, add a course, revise a course.

Plant Sciences: Drop all Plant Science and Landscape Systems courses and add them under the new academic discipline: Plant Sciences. Revise name of major to: Plant Sciences.

COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

Agriculture and Natural Resources (088)

REVISE CROSS-LISTING

507 Professional Development Seminar (1) 507 Professional Development Seminar (1) Planning and executing graduate research programs; ethics and professionalism; graduate program procedures and resources. Satisfactory/No Credit grading only. (Same as Animal Science 507, Entomology and Plant Pathology 507, Food Science and Technology 507, and Plant Sciences 507.)

(Formerly - Same as Animal Science 507, Biosystems Engineering 507, Biosystems Engineering Technology 507, Entomology and Plant Pathology 507, Environmental and Soil Sciences 507, Food Science and Technology 507, Plant Sciences 507.)

Primary course is Agriculture and Natural Resources 507.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Cross-listing is being dropped by Biosystems Engineering, Biosystems Engineering Technology, Environmental and Soil Sciences. Plant Sciences and Landscape Systems academic discipline is being changed to Plant Sciences.
- b. Impact on other academic units: Other units agreed at the fall 2003 meeting of the CASNR Graduate Academic Council held October 28, 2003. Members present were R. Augé (Grad Council rep., Plant Sciences), S. Baxter (graduate student rep), E. Bernard (chair, Entomology & Plant Pathology), M. Davidson (Food Science & Technology), J. Godkin (Animal Science), J. Lawrence (graduate student rep), R. Raman (Biosystems Engineering & Environmental Science), R. Waters (Agricultural and Extension Education), and D. West (Plant Sciences). J. Brooker (Agricultural Economics) could not be present but submitted his recommendations beforehand.

DEPARTMENT OF AGRICULTURAL ECONOMICS

Agricultural Economics (047)

REVISE DESCRIPTION

From

542 Advanced Agribusiness Production Decisions (3) Theoretical and empirical concepts in agricultural resource allocation; evaluation of both static and dynamic issues; decision theory with application to agricultural firms; aggregate impact of firm decisions on industry. Prereq 505 or equivalent.

To

542 Advanced Agribusiness Production Decisions (3) Decision theory concepts and tools for analyzing agribusiness decision problems; modeling choices using decision trees and sensitivity analysis; incorporating uncertainty into decision models using probability theory and simulation; modeling preferences using utility theory and risk attitudes. Prereq 505 or equivalent.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Current instructor has revised the course content and the new description will be more informative to students considering this course.
- b. Course format and location: no change.
- c. Impact on other academic units: none expected.
- d. Financial impact: none.

ADD AND APPROVE FOR ELECTRONICALLY-MEDIATED FORMAT

503 Managerial Economics for Agribusiness (3) Practical application of economic concepts to agribusiness management and marketing decisions. Topics include supply and demand analysis, demand estimation, production economics, cost analysis, pricing decisions, break-even analysis, capital budgeting, time value of money, and risk and uncertainty. Students will use Microsoft Excel to analyze managerial economic questions.

- Total Number of Weeks: 13
- Total Expected Student Time Commitment: 9 hours/week
- Course Designation: Tennessee-Online
- Student Site Requirements: Access to off-campus asynchronous video and materials only.
- What is the nature and quantity of structured student/instructor interaction?
2.5 hours asynchronous video lecture per week, asynchronous and/or synchronous internet discussion as needed and receiving feedback on three assignments during the semester along with three exams.
- What is the nature and quantity of structured student/student interaction? none

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: We are initiating a joint effort with UT Martin by offering this and other appropriate courses online for graduate credit. This course was designed to allow our department to participate in a distance-based master's degree program administered at UT Martin and fill a void they identified in their program that we have the expertise to provide. The course will also be of benefit to other BS students entering our UT Knoxville MS program that need an entry-level course to strengthen a possible weakness in statistics and/or intermediate microeconomics. The electronic format will be an effective method for delivering this course to our Knoxville-based students, and this delivery method will allow us to reach other students outside of UTK.
- b. Course format and location: Electronically-mediated format; see attached.
- c. Impact on other academic units: None expected.
- d. Financial impact: none.

APPROVE FOR ELECTRONICALLY-MEDIATED FORMAT

550 Advanced Agribusiness Marketing (3)

- Total Number of Weeks: 15
- Total Expected Student Time Commitment: 9 hours per week
- Course Designation: Tennessee-Online
- Student Site Requirements: Students will not be required to make an on-campus visit. Students will be required to take exams online at specified times. Students will be required to turn in homework and a class project by specified dates within the semester. All course materials will fall within a normal semester format.
- What is the nature and quantity of structured student/instructor interaction?
Course lectures will be delivered as video asynchronously through Blackboard. The lecture materials will be in Real Media or Flash format from Powerpoint slides with audio. Students will turn in homework assignments (three during the course) by a specified date/time through the Blackboard electronic drop box. Exams will be delivered via Blackboard during a specified time frame (three exams). Students will have a set time (for example 2 hours) to complete the exam. Students will work in groups on a research project, using the Internet and UT Library's online databases to conduct the research. Students may exchange information and "meet electronically" via chat rooms in Blackboard. Online office hours will be available for the instructor to provide assistance.
- What is the nature and quantity of structured student/student interaction?
A discussion board will be available for students to ask questions as well as a chat room. Students are asked to post questions on the discussion board so the instructor can post answers for all students to view questions and answers. Students working together in groups may meet via a chat room in Blackboard and exchanging emails. Online office hours will be established where students may ask questions and answers will be provided via a discussion board.

Effective: Spring 2004

SUPPORTING INFORMATION:

- a. Rationale: Will be an effective method for delivering this course to our Knoxville-based students, and this delivery method will allow us to reach other students outside of UTK. We are initiating a joint effort with UT Martin by offering this and other appropriate courses online for graduate credit.
- b. Course format and location: Electronically-mediated format; see attached.
- c. Impact on other academic units: None expected.
- d. Financial impact: none.

APPROVE FOR ELECTRONICALLY-MEDIATED FORMAT

570 Advanced Natural Resource Economics (3)

- Total Number of Weeks: 13
- Total Expected Student Time Commitment: 9 hours/week
- Course Designation: Tennessee-Online
- Student Site Requirements: Access to off-campus asynchronous video and materials only
- What is the nature and quantity of structured student/instructor interaction?
2.5 hours asynchronous video lecture per week, 0.5 – 1.0 hours scheduled asynchronous and/or synchronous internet discussion per week, and 1.0 hours of completing and receiving feedback on weekly assignments (to vary in nature from week to week).
- What is the nature and quantity of structured student/student interaction?
0.5 – 1.0 hours scheduled asynchronous and/or synchronous internet discussion per week, ongoing asynchronous, recorded discussion groups.

Effective: Fall 2004**SUPPORTING INFORMATION:**

- a. Rationale: Will be an effective method for delivering this course to our Knoxville-based students, and this delivery method will allow us to reach other students outside of UTK. We are initiating a joint effort with UT Martin by offering this and other appropriate courses online for graduate credit.
- b. Course format and location: Electronically mediate course; see attached.
- c. Impact on other academic units: None expected.
- d. Financial impact: none.

Rural Sociology (880)

DROP

480 Technological and Community Change (3)**Effective: Fall 2004****SUPPORTING INFORMATION:**

Rationale: Shifting curriculum emphasis to agribusiness management. Course is being dropped on UG level. Cross-listed on UG level with Sociology 480 (also being dropped).

REVISE PRIMARY COURSE TO DROP CROSS-LISTING.

580 Advanced Rural Sociology (3) Application of sociological concepts and theory to analyze changing structure and function of rural life in U.S. and developing countries. Demographic changes, rural social and community indicators, and rural development processes. Prereq: 380 or equivalent.

(Formerly: Same as Sociology 580.)

Effective: Fall 2004**SUPPORTING INFORMATION:**

- a. Rationale: Sociology wishes to drop the cross-listing. (See proposal by Department of Sociology – College of Arts and Sciences.)

DEPARTMENT OF ANIMAL SCIENCE

REVISE SEMINAR REQUIREMENT FOR ANIMAL SCIENCE MAJORS (MS and PhD)

On page 43 of the 2003-2004 Graduate Catalog revise

To

All first- and second-year MS students are required to enroll in 596 each spring term and all first- and second-year PhD students are required to enroll in 696 each spring term.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: The above change in the program description will reflect recent programmatic changes, course additions and deletions. These include the addition of AS696, seminar course for PhD students and the removal of seminar credit (AS596) from the fall semester.
- b. Course impact and location: None; Brehm Animal Sciences Building
- c. Impact on other academic units: None.
- d. Financial impact: None.

Animal Science (113)

REVISE CROSS-LISTING

507 Professional Development Seminar (1) (Same as Agriculture and Natural Resources 507, Entomology and Plant Pathology 507, Food Science and Technology 507, and Plant Sciences 507).

(Formerly - Same as Agriculture and Natural Resources 507, Biosystems Engineering 507, Biosystems Engineering Technology 507, Entomology and Plant Pathology 507, Environmental and Soil Sciences 507, Food Science and Technology 507, Plant Sciences and Landscape Systems 507.)

Primary course is Agriculture and Natural Resources 507.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Cross-listing is being dropped by Biosystems Engineering, Biosystems Engineering Technology, Environmental and Soil Sciences. Plant Sciences and Landscape Systems academic discipline is being changed to Plant Sciences.
- b. Impact on other academic units: Other units agreed at the fall 2003 meeting of the CASNR Graduate Academic Council held October 28, 2003. Members present were R. Augé (Grad Council rep., Plant Sciences), S. Baxter (graduate student rep), E. Bernard (chair, Entomology & Plant Pathology), M. Davidson (Food Science & Technology), J. Godkin (Animal Science), J. Lawrence (graduate student rep), R. Raman (Biosystems Engineering & Environmental Science), R. Waters (Agricultural and Extension Education), and D. West (Plant Sciences). J. Brooker (Agricultural Economics) could not be present but submitted his recommendations beforehand.

571 Design and Analysis of Biological Research (3) Experimental design and procedures; selection of experimental units; analysis and interpretation of data; statistical models and contrasts, analyses of variance: covariates, treatment arrangements, mean separation and regression. Prereq: Plant Sciences 471 or equivalent; knowledge of software package on micro- or mainframe computer. (Same as Plant Sciences 571.)

(Formerly same as Plant Sciences and Landscape Systems 571).

Primary course is Animal Science 571.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Change of academic discipline by the primary course from Plant Sciences and Landscape Systems to Plant Sciences.

DEPARTMENT OF BIOSYSTEMS ENGINEERING AND ENVIRONMENTAL SCIENCE**Biosystems Engineering (196)**

DROP FOR GRADUATE CREDIT

421 Natural Resource Engineering (3) Introduction to the hydrologic cycle: movement of water and interaction with environment through such processes as erosion and contaminant transport. Impacts through estimation and measurement, and controlling impacts through engineering design. Specific designs: waterways, erosion and sediment control structures, waste management systems, irrigation systems, and hydrologic monitoring systems. Prereq: 321 Biothermodynamics, Heat and Mass Transfer; Environmental and Soil Sciences 210 Introduction to Soil Science; Civil Engineering 390 Hydraulics or Aerospace 341 Fluid Mechanics. 2 hrs and 1 lab.

ADD FOR GRADUATE CREDIT

416 Hydrologic and Water Quality Engineering (3) An introduction to hydrology including: hydrologic variability, precipitation, evapotranspiration, infiltration, runoff, erosion, water quality and non-point pollution, energy dissipation, streamflow measurement, hydrographs, routing, open channel flow, and urban hydrology. Prereq: Civil Engineering 390 or Aerospace Engineering 341.

Effective: Fall 2004

EQUIVALENCY TABLE

Current Biosystems Engineering Graduate Course	Equivalent Biosystems Engineering Course Fall 2004
Biosystems Engineering 421 (3)	Biosystems Engineering 416 (3)*

*Cross-listed with Civil Engineering 416 (undergraduate only). * **Not cross-listed on the graduate level** per Luther Wilhelm, Associate Dean for Academic Affairs, College of Engineering: "They will cross-list the undergraduate offering, but Civil Engineering does not want to offer it for graduate credit."

SUPPORTING INFORMATION:

- Rationale: combining resources with Civil & Environmental Engineering to avoid duplication of efforts. This will increase our student contact hours and departmental visibility at minimal additional cost.
- Course format and location: Not applicable
- Impact on other academic units: no other students currently take BsE416; change proposed in conjunction with Civil & Environmental Engineering. E-Mail confirmation:
- Note: Cross-listed on undergraduate level only*
- Financial impact: Not applicable

DROP

507 Professional Development Seminar (1) (Same as Agriculture and Natural Resources 507, Animal Science 507, Biosystems Engineering Technology 507, Entomology and Plant Pathology 507, Environmental and Soil Sciences 507, Food Science and Technology 507, Plant Sciences and Landscape Systems 507.)

Primary course is Agriculture and Natural Resources 507.

Effective: Fall 2004

SUPPORTING INFORMATION:

- Rationale: has not been offered for several semesters, and likely will not be.
- Course format and location: Not applicable
- Impact on other academic units: Other units agreed at the fall 2003 meeting of the CASNR Graduate Academic Council held October 28, 2003. Members present were R. Augé (Grad Council rep., Plant Sciences), S. Baxter (graduate student rep), E. Bernard (chair, Entomology & Plant Pathology), M. Davidson (Food Science & Technology), J. Godkin (Animal Science), J. Lawrence (graduate student rep), R. Raman (Biosystems Engineering & Environmental Science), R. Waters (Agricultural and Extension Education), and D. West (Plant Sciences). J. Brooker (Agricultural Economics) could not be present but submitted his recommendations beforehand.
- Financial impact: Not applicable

DROP

505 Professional Communications Seminar (1) (Same as Biosystems Engineering Technology 505.)

Primary course is Biosystems Engineering 505.

Effective: Fall 2004

SUPPORTING INFORMATION:

- Rationale: being replaced by proposed 503 course described below.
- Course format and location: Not applicable
- Impact on other academic units: none
- Financial impact: Not applicable

ADD AND CROSS-LIST AS SECONDARY COURSE

503 Seminar (1) (Same as Biosystems Engineering Technology 503 and Environmental and Soil Sciences 503.)

(Primary course is Environmental and Soil Sciences 503.)

Effective: Fall 2004

603 Seminar (1) (Same as Environmental and Soil Sciences 603.)

(Primary course is Environmental and Soil Sciences 603.)

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Replacement seminar to make consistent with other seminar programs in the department.
- b. Course format and location: Not applicable
- c. Impact on other academic units: None; Biosystems Engineering, Biosystems Engineering Technology, and Environmental and Soil Sciences courses are in the same department, different academic programs.
- d. Financial impact: None

ADD AND CROSS-LIST AS PRIMARY COURSE

532 On-Site Domestic Wastewater Treatment, Dispersal and Reuse (3) Design and management of domestic on-site wastewater treatment and dispersal systems, use of the soil as a medium for final treatment and for wastewater dispersal, concepts of the decentralization of domestic wastewater management, and reuse of treated water for irrigation. 2 hrs and 1 lab. Prereq: Civil Engineering 395 or consent of instructor. (Same as Biosystems Engineering Technology 532.)

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: This is really a cross-listing of a course that we had in Biosystems Engineering Technology, but would like to list it first here to make it more attractive to other engineering students. In addition, the material has changed in emphasis.
- b. Course format and location: Not applicable
- c. Impact on other academic units: None; cross-listed with BsET 532 which is offered by the same department, however, in a different academic program.
- d. Financial impact: None.

REVISE SEMINAR REQUIREMENT FOR MS – BIOSYSTEMS ENGINEERING

On page 57, bottom of column 1, of the 2003-2004 Graduate Catalog, revise the Biosystems Engineering Master of Science description:

To

Biosystems Engineering 503 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation. Other specific requirements for the 30 hours are:

Biosystems Engineering 503 (3 times 1 hr) and other major subject coursework .. 12

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: To replace previous seminar requirement.
- b. Course format and location: not application.
- c. Impact on other academic units: none.
- d. Financial impact: none.

REVISE SEMINAR REQUIREMENT FOR PhD – BIOSYSTEMS ENGINEERING

On page 58, bottom of column 3, of the 2003-2004 Graduate Catalog, revise the Biosystems Engineering PhD description:

To

Biosystems Engineering 603 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation3

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: to replace previous seminar requirement.
- b. Course format and location: Not applicable
- c. Impact on other academic units: none
- d. Financial impact: none

Biosystems Engineering Technology (194)

ADD AND CROSS-LIST

503 Seminar (1) (Same as Biosystems Engineering 503 and Environmental and Soil Sciences 503.)

(Primary course is Environmental and Soil Sciences 503.)

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Replacement seminar to make consistent with other seminar programs in the department.
- b. Course format and location: Not applicable
- c. Impact on other academic units: None; Biosystems Engineering, Biosystems Engineering Technology, and Environmental and Soil Sciences courses are in the same department, different academic programs.
- d. Financial impact: None

REVISE TITLE

From

514 CAD Applications to Biosystems Engineering (3)

To

514 CAD Applications to Biosystems Engineering Technology (3)

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Editorial change to match name of Biosystems Engineering Technology 414 since they are offered together
- b. Course format and location: Not applicable
- c. Impact on other academic units: none
- d. Financial impact: None

REVISE TITLE AND CROSS-LIST AS SECONDARY COURSE

From

532 On-Site Domestic Water Supply and Wastewater Renovation (3) Basic ground water hydrology, selection and design of pumps and delivery systems, and point-of-use water treatment processes; soil-based wastewater renovation principles, and design and operating criteria for on-site wastewater renovation systems. 2 hr and 1 lab. Prereq: 506.

To

532 On-Site Domestic Wastewater Treatment, Dispersal and Reuse (3) (Same as Biosystems Engineering 532.)

Primary course is Biosystems Engineering 532.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: We are cross-listing this course into Biosystems Engineering and are putting the primary listing there to make the course more attractive to non-departmental engineering students.
- b. Course format and location: Not applicable
- a. Impact on other academic units: None; Biosystems Engineering and Biosystems Engineering Technology courses are in the same department, different academic programs.
- c. Financial impact: None

DROP

505 Professional Communications Seminar (1) (Same as Biosystems Engineering 505.)

Primary course is Biosystems Engineering 505.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Being replaced by proposed 503 course described above.
- b. Course format and location: not applicable
- c. Impact on other academic units: none
- d. Financial impact: none

DROP

507 Professional Development Seminar (1) (Same as Agriculture and Natural Resources 507, Animal Science 507, Biosystems Engineering Technology 507, Entomology and Plant Pathology 507, Environmental and Soil Sciences 507, Food Science and Technology 507, Plant Sciences and Landscape Systems 507.)

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: has not been offered for several semesters, and likely will not be.
- b. Course format and location: Not applicable
- c. Impact on other academic units: Other units agreed at the fall 2003 meeting of the CASNR Graduate Academic Council held October 28, 2003. Members present were R. Augé (Grad Council rep., Plant Sciences), S. Baxter (graduate student rep), E. Bernard (chair, Entomology & Plant Pathology), M. Davidson (Food Science & Technology), J. Godkin (Animal Science), J. Lawrence (graduate student rep), R. Raman (Biosystems Engineering & Environmental Science), R. Waters (Agricultural and Extension Education), and D. West (Plant Sciences). J. Brooker (Agricultural Economics) could not be present but submitted his recommendations beforehand.
- d. Financial impact: Not applicable

REVISE SEMINAR REQUIREMENT FOR MS – BIOSYSTEMS ENGINEERING TECHNOLOGY (THESIS OPTION)

On page 57, top of column 2, in the 2003-2004 Graduate Catalog, revise the Biosystems Engineering Technology Master of Science Thesis Option requirements as follows:

To

Biosystems Engineering Technology 503 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation. Other specific requirements for the 30 hours are:

Biosystems Engineering Technology 503 (3 times 1 hr) and other major subject coursework .. 12

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: to replace previous seminar requirement
- b. Course format and location: not applicable
- c. Impact on other academic units: none
- d. Financial impact: none

REVISE SEMINAR REQUIREMENT FOR MS – BIOSYSTEMS ENGINEERING TECHNOLOGY (NON-THESIS OPTION)

On page 57, middle of column 2, in the 2003-2004 Graduate Catalog, revise the Biosystems Engineering Technology Master of Science Non-Thesis Option as follows:

To

Biosystems Engineering Technology 503 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation.

Other specific requirements for the 33 hours are:

Biosystems Engineering Technology 503 (3 times 1 hr) and other major subject coursework .. 12

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: to replace previous seminar requirement
- b. Course format and location: not applicable
- c. Impact on other academic units: none
- d. Financial impact: none

Environmental and Soil Sciences (345)

REVISE TO ADD CROSS-LISTINGS TO PRIMARY COURSE

503 Seminar (1) Presentations and discussions of current scientific material. May be repeated. Maximum 3 hours. (Same as Biosystems Engineering 503 and Biosystems Engineering Technology 503.)

Effective: Fall 2004

SUPPORTING INFORMATION:

See Rationale under Biosystems Engineering 503 and Biosystems Engineering Technology 503.

DROP SECONDARY CROSS-LISTED COURSE

501 Seminar Preparation (1) (Same as Plant Sciences and Landscape Systems 505.)

Effective: Fall 2004

SUPPORTING INFORMATION:

- Rationale: to replace previous seminar requirement
- Course format and location: not applicable
- Impact on other academic units: Approved by Plant Sciences and others at the October 28, 2003 meeting of the CASNR Graduate Academic Council.
- Financial impact: none

DROP SECONDARY CROSS-LISTED COURSE

507 Professional Development Seminar (1) (Same as Agriculture and Natural Resources 507, Animal Science 507, Biosystems Engineering 507, Biosystems Engineering Technology 507, Entomology and Plant Pathology 507, Food Science and Technology 507, Plant Sciences 507.)

Effective: Fall 2004

SUPPORTING INFORMATION:

- Rationale: to replace previous seminar requirement
- Course format and location: not applicable
- Impact on other academic units: Other units agreed at the fall 2003 meeting of the CASNR Graduate Academic Council held October 28, 2003. Members present were R. Augé (Grad Council rep., Plant Sciences), S. Baxter (graduate student rep), E. Bernard (chair, Entomology & Plant Pathology), M. Davidson (Food Science & Technology), J. Godkin (Animal Science), J. Lawrence (graduate student rep), R. Raman (Biosystems Engineering & Environmental Science), R. Waters (Agricultural and Extension Education), and D. West (Plant Sciences). J. Brooker (Agricultural Economics) could not be present but submitted his recommendations beforehand.
- Financial impact: none

ADD AND CROSS-LIST (PRIMARY COURSE)

603 Seminar (1) Presentations and discussion of current scientific material. May be repeated. Maximum 3 hours. (Same as Biosystems Engineering 603.)

Effective: Fall 2004

SUPPORTING INFORMATION

- Rationale: Replacement seminar to make consistent with other seminar programs in the department.
- Course format and location: Not applicable
- Impact on other academic units: None
- Financial impact: None

REVISE SEMINAR REQUIREMENT FOR MS – ENVIRONMENTAL AND SOIL SCIENCES (THESIS OPTION)

On page 57, middle of column 3, of the 2003-2004 Graduate Catalog, revise the Environmental and Soil Sciences Master of Science Thesis Option as follows:

To

503 Seminar 3

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: to replace previous seminar requirement
- b. Course format and location: not applicable
- c. Impact on other academic units: none
- d. Financial impact: none

**REVISE SEMINAR REQUIREMENT FOR MS – ENVIRONMENTAL AND SOIL SCIENCES
(THESIS OPTION)**

On page 57, bottom of column 3, in the 2003-2004 Graduate Catalog, revise the Environmental and Soil Sciences Master of Science Thesis Option as follows:

To

5. Environmental and Soil Sciences 503 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation.

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: Replacement seminar to make consistent with other seminar programs in the department.
- b. Course format and location: Not applicable
- c. Impact on other academic units: None
- d. Financial impact: None

**REVISE SEMINAR REQUIREMENT FOR MS – ENVIRONMENTAL AND SOIL SCIENCES
(NON-THESIS OPTION)**

On page 58, middle of column 1, of the 2003-2004 Graduate Catalog, revise the following requirement for Environmental and Soil Sciences Master of Science Non-Thesis Option:

To

503 Seminar 3

On page 58, middle of column 1, of the 2003-2004 Graduate Catalog, add the following requirement for Environmental and Soil Sciences Master of Science Non-Thesis Option:

5. Environmental and Soil Sciences 503 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: to replace previous seminar requirement
- b. Course format and location: not applicable
- c. Impact on other academic units: none
- d. Financial impact: none

REVISE CATALOG TEXT

On page 58, top of column 2, of the 2003-2004 Graduate Catalog, revise the catalog text for the PhD – Plant, Soils and Insects major – Environmental and Soil Sciences concentration

To

THE DOCTORAL PROGRAM
Environmental and Soil Sciences concentration

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Without the subheading, it is not clear that the material in this column and into the next refers only to the Environmental and Soil Sciences concentration of the Plant, Soils, and Insects PhD program.
- b. Course format and location: Not applicable
- c. Impact on other academic units: none
- d. Financial impact: None

REVISE SEMINAR REQUIREMENT FOR PhD – PLANTS, SOILS AND INSECTS – ENVIRONMENTAL AND SOIL SCIENCES CONCENTRATION.

On page 58, top of column 3, of the 2003-2004 Graduate Catalog, revise the requirements for the Environmental and Soil Sciences concentration in the Plant, Soils and Insects Doctoral Program as follows:

To

5. Environmental and Soil Sciences 603 Seminar (1) must be taken three times during the course of the program, the last of which must be in the student's final semester before graduation.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: to replace previous seminar requirement.
- b. Course format and location: not applicable.
- c. Impact on other academic units: none.
- e. Financial impact: none.

DEPARTMENT OF ENTOMOLOGY AND PLANT PATHOLOGY**Entomology and Plant Pathology (341)****REVISE CROSS-LISTING**

507 Professional Development Seminar (1) (Same as Agriculture and Natural Resources 507, Animal Science 507, Food Science and Technology 507, and Plant Sciences 507.)

(Formerly - Same as Agriculture and Natural Resources 507, Animal Science 507, Biosystems Engineering 507, Biosystems Engineering Technology 507, Environmental and Soil Sciences 507, Food Science and Technology 507, Plant Sciences and Landscape Systems 507.)

Primary course is Agriculture and Natural Resources 507.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Cross-listing is being dropped by Biosystems Engineering, Biosystems Engineering Technology, Environmental and Soil Sciences. Plant Sciences and Landscape Systems academic discipline is being changed to Plant Sciences.
- d. Impact on other academic units: Other units agreed at the fall 2003 meeting of the CASNR Graduate Academic Council held October 28, 2003. Members present were R. Augé (Grad Council rep., Plant Sciences), S. Baxter (graduate student rep), E. Bernard (chair, Entomology & Plant Pathology), M. Davidson (Food Science & Technology), J. Godkin (Animal Science), J. Lawrence (graduate student rep), R. Raman (Biosystems Engineering & Environmental Science), R. Waters (Agricultural and Extension Education), and D. West (Plant Sciences). J. Brooker (Agricultural Economics) could not be present but submitted his recommendations beforehand.

REVISE CROSS-LISTING

510 Plant Disease Fungi (4) Morphology, taxonomy, biology, and genetics of plant pathogenic fungi. Isolation and identification of plant pathogenic fungi. 2 hours and 2 labs. Prereq: 313 or consent of instructor. (Same as Plant Sciences 511.)

(Formerly same as Plant Sciences and Landscape Systems 511.)
Primary course is Entomology and Plant Pathology 510.

530 Integrated Pest Management (3) Principles and application of biological, cultural, genetic, behavioral, and chemical methods of control to maintain pest populations below economic threshold levels. Prereq: 321, or consent of instructor. (Same as Plant Sciences 530.)

(Formerly same as Plant Sciences and Landscape Systems 530.)
Primary course is Entomology and Plant Pathology 530.

544 Protein Gel Electrophoresis (1) Practical experience with isolating native and denatured proteins from plants and fungi, determining protein concentrations, PAGE of proteins including total proteins and assays for specific enzymes (isozyme) analyses. 1 hour and 4 labs weekly for 5 weeks. Prereq: 8 hours biological/botanical sciences, 8 hours chemistry, consent of instructor. (Same as Plant Sciences 544.)

(Formerly same as Plant Sciences and Landscape Systems 544.)
Primary course is Entomology and Plant Pathology 544.

545 Plant Microtechnique (1) Practical light and scanning electron microscopy methods for investigating aspects of plant development, histochemistry and pathological structures in ornamental forest and crop species. 1 hour and 4 labs weekly for 5 weeks. Prereq: 8 hours biological/botanical sciences and consent of instructor. (Same as Plant Sciences 545.)

(Formerly same as Plant Sciences and Landscape Systems 545.)
Primary course is Entomology and Plant Pathology 545.

643 DNA Analysis (2) Practical experience in isolating genomic DNA from prokaryotic and eukaryotic organisms, amplification of DNA using arbitrary nucleotide primers. DNA profiling techniques (DAF, ASAP, ITS ribosomal DNA and 16S bacterial gene) isolation and purification of amplified products. Data collection and analysis of relationships between organisms. 1 hr and 4 labs weekly for 7 weeks. Prereq: 12 hours biological sciences, 8 hours chemistry, written consent of instructor. (Same as Plant Sciences 643.)

(Formerly same as Plant Sciences and Landscape Systems 643.)
Primary course is Entomology and Plant Pathology 643.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: To reflect the change of the cross-listed courses from Plant Sciences and Landscape Systems to Plant Sciences.

ADD AND CROSS-LIST AS PRIMARY COURSE

451 Plant Tissue Culture (3) Methods for the culture of cells, tissues, and organs including media preparation and maintenance of cultures. Lecture and lab. Prereq: 110-120 or Biology 130-140 or equivalent and Chemistry 120-130 or equivalent. Recommended: 310, 321, 412; Microbiology 310 or 319; Plant Sciences 330. (Same as Botany 451 and Plant Sciences 451.)

Primary course is Entomology and Plant Pathology 451.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Botany 451 was previously the primary course and the secondary course was PSLS 451—now PS 451.

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

Food Science and Technology (390)

REVISE GRADING

501 Seminar (1) Satisfactory/No Credit grading only.

(Formerly: Letter grade.)

601 Seminar (1) Satisfactory/No Credit grading only.

(Formerly: Letter grade.)

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Faculty voted to eliminate letter grades for this course.
b. Course format and location: no change
c. Impact on other academic units: none
d. Financial impact: none

ADD FOR GRADUATE CREDIT

445 Application of Food Chemistry and Processing Principles (4) Interactions and functions of dairy, egg, cereal and other plant based ingredients during the production and storage of processed food products. 3 hours lecture and 1 lab. Prerequisite: 340 and 410 or consent of instructor.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: Course already approved for undergraduate program. Course material is suitable for graduate students and part of the information covers material that was lost when other graduate courses had to be dropped due to reduction in faculty numbers.
- b. Course format and location: no change
- c. Impact on other academic units: none; course is already being offered to undergraduate students in the department.
- e. Financial impact: none

REVISE CROSS-LISTING

507 Professional Development Seminar (1) (Same as Agriculture and Natural Resources 507, Animal Science 507, Entomology and Plant Pathology 507, Plant Sciences 507.)

(Formerly: Same as Agriculture and Natural Resources 507, Animal Science 507, Biosystems Engineering 507, Biosystems Engineering Technology 507, Entomology and Plant Pathology 507, Environmental and Soil Sciences 507, Plant Sciences and Landscape Systems 507.)
Primary course is Agriculture and Natural Resources 507.

Effective: Fall 2004

DEPARTMENT OF PLANT SCIENCES

Plant Sciences and Landscape Systems (790)

DROP ALL PLANT SCIENCES AND LANDSCAPE SYSTEMS GRADUATE COURSES AND ADD THEM UNDER THE NEW ACADEMIC DISCIPLINE (PLANT SCIENCES)

From

Plant Sciences and Landscape Systems (PSLS)

To

Plant Sciences (PISc)

Plant Sciences (791) (PISc)

ADD FOR GRADUATE CREDIT

410 Nursery Management and Production (3) Modern management methods as applied to retail and wholesale nurseries and landscape contracting firms. Methods of producing liners, container and field-grown woody ornamental plants. 2 hours and 1 lab. Prereq: 220, 330, and Environmental and Soil Sciences 210, or consent of instructor.

427 Management and Administration of Public Horticulture Institutions (3) Management of resources in non-profit institutions, support organizations and communities. Theoretical framework and institutional mission; strategic planning and programming; financial accounting and budgeting; development and fund raising; personnel policies; volunteer development; marketing and publicity; legal issues; relationships between staff and governing boards; the use of information technology in management and governance systems; and conservation/preservation roles in community development. Prereq: 326.

429 Field Study of Public Horticulture Institutions (3) Extended 10-12 day field study of various public horticulture institutions: botanical gardens, arboreta, historical grounds, zoos, conservatories, cemeteries, and nature preserves. Travel journal and course portfolio required. Application and travel fee required. Prereq: 326.

431 Physiology and Ecology in Agroecosystems (3) Plant physiology and ecology applied to crop production and management. Plant physiology and ecology principles related to crop production practices from seeding to harvesting and handling. Interaction of crops with environment and sustainable agroecosystems. 2 hours and one 2 hour lab. Prereq: 230.

433 Agricultural Pesticides (3) Regulation of pesticide development, manufacture, transportation, marketing and use. Structure, use, mode of action, degradation and environmental impact of pesticides used in agriculture, forestry and related areas. 2 hours and 1 lab. Prereq: 1 year biological sciences and 1 semester chemistry.

434 Fruit and Vegetable Crops (3) Principles of production systems to counter environmental stresses and to increase productivity of warm and cool season vegetable crops, small fruit crops, and deciduous tree fruit crops. Storage of crops after harvest. 2 hours and one 2 hour lab. Prereq: 230.

435 Field and Forage Crops (3) Agronomic principles of crop production and management. Crop improvement, cropping systems, tillage, fertilization, pest management, harvest and utilization of major field and forage crops. 2 hours and 1 lab. Prereq: 230.

436 Plant and Garden Photography (2) Principles and techniques of photography related to plants and gardens. Equipment options and field shooting under various weather conditions and in different seasons. Prereq: Senior standing and consent of instructor.

437 Public Garden Operations and Management (3) Analysis of year-round operations and management of public gardens. Case studies: time and labor management, budget development and management, implementation of volunteer programs, information dissemination methods for public outreach, management of grounds and facilities using The University of Tennessee Institute of Agriculture Gardens as model. Prereq: 326.

440 Advanced Turfgrass Management (4) Principles and scientific basis of turfgrass culture: adaptation, ecology, physiology, soil fertility, and grass nutrition, climatic influences on grass culture; physiology of clipping and water management; design, construction, and management of golf courses; and physiological influences of pest infestation and control measures. 3 hours and 1 lab. Prereq: 340 or consent of instructor.

446 Horticultural Therapy (3) Application of horticulture as therapy for treatment, rehabilitation and/or training of individuals with disabilities. Prereq: Senior standing and consent of instructor.

450 Specialty Landscape Construction (3) Methods of design, materials, and construction techniques for specialized components of landscape industry. Irrigation systems, outdoor lighting, garden ponds and water features.

ADD FOR GRADUATE CREDIT AND CROSS-LIST

451 Plant Tissue Culture (3) (Same as Botany 451 and Entomology and Plant Pathology 451.)

Entomology and Plant Pathology 451 is the primary course

ADD FOR GRADUATE CREDIT

453 Principles of Plant Breeding (3) Genetic principles and techniques used in crop improvement. Consideration of breeding methods for various types of plant reproduction systems and application. Discussion of heritability estimation, genetic advances through selection and theory upon which breeding methods are based. 2 hours and one 2 hour lab. Prereq: 471 and Biology 240.

460 Professional Practices in Landscape Construction and Management (2) Professionalism, salesmanship, proposals, bidding, estimating, specification, and contract management in landscape services industry. Interaction with industry representatives through special presentations. Prereq: 350 or consent of instructor.

471 Statistics for Biological Research (3) Application of statistics to interpretation of biological research. Notation, descriptive statistics, probability, distributions, confidence intervals, t and chi-square tests, analysis of variance, mean separation procedures, linear regression and correlation. Prereq: Mathematics 125 or equivalent.

480 Advanced Landscape Design (3) Comprehensive application of landscape design skills to variety of project experiences: landscape planning and analysis, planting design, and materials estimating. Two 3-hour labs. Prereq: 280 and 380.

485 Computer Aided Landscape Design (3) Computer Aided Design (CAD) related to landscape design and construction. Site planning and construction of related landscape plan view and 3-D drawings. Operating system, use of Autocad and LANDCADD software. Two 3-hour labs. Prereq: 280, 380, Agriculture and Natural Resources 290.

494 Professional Horticultural Communications (3) Communication for public horticulturists through written, oral and visual media. Communication skills using proper writing techniques and grammar for print media, brochure design using desktop publishing, slide show development, oral presentations, and video use for educational and informational presentations in ornamental horticulture. Prereq: Agriculture and Natural Resources 290 and senior standing.

ADD

500 Thesis (1-15) P/NP only.

501 Special Topics in Plant Sciences (1-3) Topics to be assigned. May be repeated. Maximum 6 hours. Prereq: Consent of instructor.

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

503 Non-Thesis Project (1-2) Library, field, or laboratory project under supervision of faculty member. Not for thesis candidates. May be repeated. Maximum 4 hours.

504 Seminar (1) Presentations and discussion of topics. May be repeated. Maximum 2 hours.

505 Seminar Preparation (1) Application of speaking, writing, and organizational skills in preparation and presentation of scientific material to both scientific and general audiences. Preparation of abstracts for scientific presentations. Required of all entering graduate students during their first year of graduate study.

ADD AND CROSS-LIST

507 Professional Development Seminar (1) Satisfactory/No Credit grading only. (Same as Agriculture and Natural Resources 507, Animal Science 507, Entomology and Plant Pathology 507, and Food Science and Technology 507.)

Primary course is Agriculture and Natural Resources 507.

510 Plant Disease Fungi (4) (Same as Entomology and Plant Pathology 510.)

Primary course is Entomology and Plant Pathology 510.

ADD

521 Flowering Physiology (1) General phenomenology, photoperiodism, thermoperiodism, interactions of external factors, juvenility, and hormonal regulation. 3 hours weekly for 5 weeks. Prereq: Introductory plant physiology or equivalent.

522 Drought Physiology (1) Biophysical and biochemical aspects of plant water relations and drought physiology. 3 hours weekly for five weeks. Prereq: Introductory plant physiology or equivalent.

ADD AND CROSS-LIST

530 Integrated Pest Management (3) (Same as Entomology and Plant Pathology 530.)

Primary course is Entomology and Plant Pathology 530.

ADD

532 Environmental Crop Physiology and Ecology (3) General and specific relations among environmental factors, crop organisms, and agricultural systems. Interrelationships of atmospheric gases in photosynthesis, evapotranspiration and foliar injury. Relationships of temperature stress, vernalization and bud dormancy to crop production. Influences of maturation ripening and senescence on post-harvest quality of fruit, vegetable, grain and forage crops. 2 hours and 1 lab. Prereq: 431.

536 Ecology of Grazing Land Systems (3) Multi-university, field-oriented course. Components and functions of grazing lands and how these vary in different ecoregions; research needs, objectives and techniques in soil-plant-animal research; forage-livestock ecology and systems in grazing lands (cropland, pastureland, rangeland and forestland); role of forages in conservation practices, wildlife habitats, and sustainable agriculture; and industries involved with forages and livestock. Two-week field trip, inclusive report and examination. Prereq: Consent of instructor.

ADD AND CROSS-LIST

544 Protein Gel Electrophoresis (1) (Same as Entomology and Plant Pathology 544.)

Primary course is Entomology and Plant Pathology 544.

545 Plant Microtechnique (1) (Same as Entomology and Plant Pathology 545.)

Primary course is Entomology and Plant Pathology 545.

ADD

551 Organismal Plant Genetics (3) Discovery of genetics, polyploidy, extrachromosomal inheritance, apomixis, incompatibility systems, mutations, controlling elements, quantitative inheritance and heritability. Prereq: General genetics and 471 or equivalent.

ADD AND CROSS-LIST

571 Design and Analysis of Biological Research (3) (Same as Animal Science 571.)

Primary course is Animal Science 571.

ADD

592 Internship (1-2) Application of horticulture and design principles and practices in supervised, professional setting, approved by department. Satisfactory/No Credit or letter grade.

593 Problems in Plant Sciences (1-3) Independent study. Current topic related to technology, science or design. May be repeated. Maximum 6 hours.

600 Doctoral Research and Dissertation (3-15) P/NP only.

603 Special Topics in Crop Physiology and Ecology (1-3) Microclimatology of agroecosystems, crop dormancy and responses to stress, physiology of crop growth and reproduction. Interactions of physiology and germplasm in crop production, theory and application of quantitative methods in crop physiology and ecology research. May be repeated. Maximum 6 hours.

605 Special Topics in Plant Breeding and Genetics (1-3) Genotype by environment interactions, estimation of quantitative parameters, mutations, chromosome dynamics, polyploidy, genetic engineering, interspecific hybridization, linkage, screening methods, genome organization. May be repeated. Maximum 6 hours.

633 Plant Metabolism (3) Metabolism of chemical compounds of economic importance in crop production: plant growth regulators, naturally occurring plant metabolites, and herbicides. Prereq: Botany 521 or 522 and organic chemistry or biochemistry.

ADD AND CROSS-LIST

643 DNA Analysis (2) (Same as Entomology and Plant Pathology 643.)*Primary course is Entomology and Plant Pathology 643.*

ADD

653 Advanced Plant Breeding (3) Principles and methodologies targeting genetic gain for crop improvement. Concepts of qualitative and quantitative trait improvement. Parental germplasm, hybridization, population formation, inbreeding, genetic variance, heritability, selection methods, molecular genetic markers, genetically engineered crops. Prereq: 571 and general genetics, or equivalent, or consent of instructor.

Effective Date for All Plant Sciences Courses: Fall 2004

EQUIVALENCY TABLE
Plant Sciences and Landscape Systems Courses - Plant Sciences Courses
Effective: Fall 2004

Plant Sciences and Landscape Systems (PSLS) Current Graduate Courses	Plant Sciences (PISc) Equivalent Courses – Fall 2004
410	410
427	427
429	429
431	431
433	433
434	434
435	435
436	436
437	437
440	440
446	446
450	450
451* (Same as Botany 451.) Primary course: Botany 451.	451* (Same as Botany 451 and Entomology and Plant Pathology 451.) Primary course: Entomology and Plant Pathology 451.
453	453
460	460
471	471
480	480
485	485
494	494
500	500
501	501
502	502
503	503
504	504
505* (Same as ESS 501.) Primary course: PSLS 505.	505 (Formerly cross-listed with ESS 501. ESS 501 dropped Fall 2004.)
507* (Same as Animal Science 507, ASNR 507, BIOE 507, BIOT 507, EPP 507, ESS 507, FST 507.) Primary course: ASNR 507.	507* (Same as Animal Science 507, ASNR 507, EPP 507, FST 507.) Primary course: ASNR 507.
510* (Same as EPP 510.) Primary course: EPP 510.	510* (Same as EPP 510.) Primary course: EPP 510.
521	521
522	522
530* (Same as EPP 530.) Primary course: EPP 530.	530* (Same as EPP 530.) Primary course: EPP 530.
532	532
536	536
543* (Same as EPP 543.) Primary course: EPP 543.)	543* (Same as EPP 543.) Primary course: EPP 543.
544* DROPPED SPRING 2004 (Same as Entomology & Plant Pathology 544.) (EPP is primary.)	-----
545* (Same as EPP 545.) Primary course: EPP 545.	545* (Same as EPP 545.) Primary course: EPP 545.
551	551
571* (Same as Animal Science 571.) Primary course: Animal Science 571.	571* (Same as Animal Science 571.) Primary course: Animal Science 571.
592	592
593	593

MEMO

TO: Graduate Council Curriculum Committee

FROM: Don Cox, Associate Dean

DATE: December 10, 2003

SUBJECT: Graduate Curricular Changes, College of Arts and Sciences

The attached curricular proposals have been approved by the faculty of the College of Arts and Sciences and are submitted to the Graduate Council for consideration. The following is a summary of these proposals:

- 1) Anthropology—Add Mediterranean archaeology concentration to the Master's Program, add cross listings 436, 442, 443, 444, 562, 565.
- 2) Art—(Design/Graphic) Revise credit hours for 456; (Media Arts) Revise prerequisites for 431, 441, 442; (Printmaking) Drop 462, 463, 464, add 461.
- 3) Audiology and Speech Pathology—Two revisions to the Master's Program in Speech Pathology, two revisions to Doctoral Programs, addition of Aural Habilitation Concentration, drop 520, 524, add 515, 518, 519, 604, 605, 662, 663, revise 522, 602, 609, 657, 658, 659, 660.
- 4) Botany—Revise 451.
- 5) Chemistry—Revise number 4 in the Master's Program, revise number 5 under the Doctoral Program, add 533, drop 540.
- 6) Classics—Revise program description to add reference to Anthropology M.A., add 436, revise 562, drop 461, 561, add and cross list 442, 443, 444, 565.
- 7) Earth and Planetary Sciences—Revise prerequisites for Geology 401, 450, 455, 470, 485, add Geology 501, 539, 561, revise title for Geology 535.
- 8) Ecology and Evolutionary Biology—Add 421, revise 461.
- 9) English—Add 423.
- 10) Geography – Revise 411, 510, 517.
- 11) History—Add 515, 516, 631, 641.
- 12) Interdisciplinary Programs—(Legal Studies) Add and cross-list 445, revise 400 cross-listing; (Women's Studies) Drop 2 courses for graduate credit.
- 13) Life Sciences—Revise 503, 505, 520-521, 540-541, 595-596, 695-696, drop 506, 610, add 507, 615.
- 14) Mathematics—Approve Electronically-Mediated Format for three courses: 504, 507, 509.
- 15) Modern Foreign Languages and Literatures—(Asian Languages) Revise 451, add 452; (Spanish) Revise 551.

16) Music—(Ensemble) Drop 520, add 583; (History) Revise 540, add 586, 596; (Keyboard) Revise 520, 540, drop 550.

17) Philosophy—Revise grading system for 593.

18) Political Science—Add 425, 445.

19) Psychology—Revise Clinical Psychology sentence, revise part of alphabetical list under number 4, add 597, 598, 599. Catalog correction for 635 to update academic discipline of cross-listings.

20) Sociology—Revise 510, drop 405, 580 cross-listings, drop 414, 563, add 506, 562.

21) Theatre—Revise 440, 456, 462.

COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF ANTHROPOLOGY

ADD MEDITERRANEAN ARCHAEOLOGY CONCENTRATION FOR THE MA IN ANTHROPOLOGY

On Page 45 of the 2003-2004 Graduate Catalog, 1st Column, under M.A. Requirements, ADD the following to the end of Number 2:

Special Training in Mediterranean Archaeology: In cooperation with the Classics and History Departments, the Department of Anthropology is able to offer a concentration in Mediterranean archaeology at the Master's level. Students who apply in this area should have completed appropriate undergraduate courses in archaeology or anthropology. An anthropology minor is preferred.

On Page 45 of the 2003-2004 Graduate Catalog, 1st Column, Master's Program, Just before M.A. Requirements, ADD:

Students concentrating in Mediterranean Archaeology, in consultation with their advisor, should select their additional 18 hours from courses offered in the Anthropology, History, or Classics departments.

Effective: Fall 2004

Rationale: In the above changes Anthropology is adding the Mediterranean Archaeology concentration in cooperation with Classics and History.

Course format and location: N/A

Impact on other academic units: Offerings in Classics and History may change.

Financial impact: None

Anthropology (122)

ADD FOR GRADUATE CREDIT AND CROSS-LIST

436 Cities and Sanctuaries of the Greek and Roman World (3) (Same as Classics 436.)

Primary course is Classics 436.

442 Intensive Survey of the Archaeology of the Prehistoric Aegean (3) (Same as Classics 442.)

Primary course is Classics 442.

443 Intensive Survey of the Archaeology of Greece (3) (Same as Classics 443.)

Primary course is Classics 443.

444 Intensive Survey of the Archaeology of Etruria and Rome (3) (Same as Classics 444.)

Primary course is Classics 444.

Effective: Fall 2004

ADD AND CROSS-LIST

562 Special Topics in Mediterranean Archaeology (3) (Same as Classics 562.)

Primary course is Classics 562.

565 Graduate Seminar in Ancient Mediterranean Civilization (3) (Same as Classics 565.)

Primary course is Classics 565.

Effective: Fall 2004

Rationale: All the above courses are part of the new M.A. concentration.
Course format and location: Lecture/discussion; classroom.
Impact on other academic units: Courses are cross-listed with Classics.
Financial impact: None

SCHOOL OF ART

Art Design/Graphic (136)

REVISE CREDIT HOURS

456 Graphic Design Practicum (1-12)

(Formerly: 3-12)

Effective: Fall 2004

Rationale: This change allows flexibility for practicum experience.
Course format and location: Fieldwork and practical work experience
Impact on other academic units: None
Financial impact: None

Art Media Arts (132)

REVISE PREREQUISITES

431 Photography III (3-6) Prereq: 231, 330, 331.

(Formerly: 231, 331)

441 Digital Photography II (4) Prereq: 330, 341, and consent of instructor.

(Formerly: Digital Photography I and permission of instructor)

442 Large Format Photography II (4) Prereq: 330, 342, and consent of instructor.

(Formerly: Large Format Photography I and permission of instructor)

Effective: Fall 2004

Rationale: Media Arts students must pass a portfolio review before 300 and 400 level classes may be taken. This change makes the course descriptions consistent with this requirement.
Course format and location: N/A
Impact on other academic units: None
Financial impact: None

Art Printmaking (132)

DROP

462 Intaglio III (3-5)

463 Lithography III (3-6)

464 Screen Printing III (3-6)

Effective: Fall 2004

Rationale: Course content of these courses will be provided in a new general course, Art Printmaking 461.
Course format and location: N/A
Impact on other academic units: None
Financial impact: None

ADD FOR GRADUATE CREDIT

461 Advanced Print Workshop (1-6) Individual and collaborative studio work encompassing theory and practice in intaglio, lithography, relief printing, screenprinting, monoprint, papermaking, book arts and/or photo-print processes. Prereq: 361 or consent of instructor. May be repeated. Maximum 12 hours.

Effective: Fall 2004

Rationale: This course will replace Art Printmaking 462, 463, and 464. It will combine student numbers to satisfy institutional data collections.

Course format and location: Studio Art class

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF AUDIOLOGY AND SPEECH PATHOLOGY

REVISE REQUIREMENTS FOR THE MA IN SPEECH PATHOLOGY

On p. 51 of the 2003-2004 Graduate Catalog, 3rd Column, REVISE the Master's Program in Speech Pathology.

To

The required courses are 506, 511, 518, 526, 561, 582, 539 or 541, and at least two seminars from the following courses: 522, 523, 531, 626, or 661 and at least 15 hours of elective courses. Undergraduate coursework may not be substituted for seminar courses. Students who have not completed an undergraduate course in each of the following three areas--speech sound disorders, voice disorders, and fluency disorders--must complete one graduate course in each of the three areas.

Effective: Fall 2004

Rationale: 520 and 524 are being dropped from the curriculum. Change in the title of 522 dictates the wording change.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE CATALOG TEXT FOR THE MA IN SPEECH PATHOLOGY

On Page 51 of the 2003-2004 Graduate Catalog, 3rd Column, The Master's Program in Speech Pathology, DELETE last paragraph.

[Omit the following: Graduate students in both Audiology and Speech Pathology may elect to pursue a concentration in the area of aural habilitation. Admission to the aural habilitation concentration is competitive through end of paragraph]

Effective: Fall 2004

Rationale: This paragraph will be replaced by a section just before the course listings.

Course format and location: N/A

Impact on other academic units: None

Financial impact: None

REVISE REQUIREMENTS FOR THE DOCTOR OF AUDIOLOGY

On Page 52 of the 2003-2004 Graduate Catalog, 1st Column, Doctoral Programs, 2nd Paragraph, Numbers 4 and 5 (ADD 6).

To

4. 18 semester hours of externship in audiology.
5. A qualifying examination.
6. A comprehensive examination.

Effective: Fall 2004

Rationale: The 18 externship hours do not need to be taken in 6 hour increments. The Au.D. requires both a qualifying and a comprehensive examination.

Course format and location: N/A

Impact on other academic units: None

Financial impact: None

On page 52 of the 2003-2004 Graduate Catalog, 2nd Column under Doctoral Programs, Beginning after 1st enumerated list, REVISE:

To

The doctoral program requires successful completion of course work, research projects, a comprehensive examination and dissertation. The total program includes a minimum of 60 semester hours with a minimum of:

1. 6 semester hours in a research tool,
2. 6 semester hours in a cognate field outside the department,
3. 24 semester hours in the major area of study (6 credits must be at the 600 level within the department). These will include:
 - a. a minimum of 6 semester hours on the topic of major interest,
 - b. a minimum of 6 semester hours earned through participation in two different research projects,
 - c. 3 semester hours of ASP 611 (Experimental Design) course (or equivalent), and,
 - d. 3 semester hours of ASP 655 supervised teaching experience.
4. 24 semester hours in dissertation (600) enrollment

To complete the doctoral degree program, students must prepare a dissertation and defend it successfully. Students must pass a comprehensive examination with both a written and an oral component before being advanced to candidacy. The doctoral program should be developed in the first year of study and is the responsibility of the student and the doctoral committee.

Effective: Fall 2004

Rationale: This reflects the content of the doctoral program.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

ADD AURAL HABILITATION CONCENTRATION FOR THE DOCTOR OF AUDIOLOGY

On Page 52 of the 2003-2004 Graduate Catalog, 2nd Column following Doctoral Programs, before course listings, INSERT new section:

Aural Habilitation Concentration

Graduate students in both Audiology and Speech Pathology may elect to pursue a concentration in the area of aural habilitation. Admission to the program is competitive and applications are available on the departmental website.

The Aural Habilitation Concentration requires:

1. Three semesters of clinical practicum in treatment of children who have hearing impairments, totaling a minimum of 130 clock hours,
2. Completion of 6 semester hours of graduate course work in language, audiology and/or aural habilitation in elective requirements for the M.A. or Au.D.

Specific requirements are outlined in the M.A. and Au.D. Graduate Handbooks as well as on the departmental website.

Effective: Fall 2004

Rationale: This section replaces the paragraph deleted earlier. This clinical practicum needs to be here so grades may be allocated for it and so students are able to differentiate practicum placements on their transcripts.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

Audiology and Speech Pathology (160)

DROP

520 Aphasia (3)**524 Traumatic Brain Injury (3)****Effective: Fall 2004****Rationale:** 520 and 524 are being revised sufficiently to warrant new numbers, etc.**Course format and location:** n/a**Impact on other academic units:** None**Financial impact:** None

ADD

515 Practicum in Aural Rehabilitation (1-4) Prereq: 473 and 494 or equivalent. May be repeated. Maximum 9 hours.**Effective: Fall 2004****Rationale:** This clinical practicum was deleted in error from the 2003-2004 catalog and is being replaced.**Course format and location:** clinical practice**Impact on other academic units:** None**Financial impact:** None**518 Adult Neurogenic Communication Disorders I (3)** This course will assist students in developing basic biological, social, clinical and theoretical understandings of commonly observed neurological impairments. Prereq: 506 or equivalent or consent of instructor.**Effective: Fall 2004****Rationale:** This class is necessary to meet degree requirements for the Masters in speech-language pathology and to satisfy speech-language pathology certification requirements of ASHA.**Course format and location:** Didactic classroom lecture with some laboratory demonstrations.**Impact on other academic units:** None**Financial impact:** None**519 Adult Neurogenic Communication Disorders II (3)** This course will assist students in developing an advanced understanding of the neural, behavioral, social, clinical and theoretical understandings of acquired neurological cognitive-linguistic impairments. Prereq: 506 and 518 or consent of instructor.**Effective: Fall 2004****Rationale:** This is a substantive revision of the course previously listed as 524. It expands on the theoretical and clinical issues introduced in 518 to better prepare those students with a specific interest in medical speech-language pathology.**Course format and location:** Classroom lecture and discussion**Impact on other academic units:** None**Financial impact:** None**604 Genetics & Pharmacology of Hearing (3)** Study of genetics, pharmacology, and general cellular processes as they relate to hearing. Prereq: 507 or equivalent or consent of instructor.**Effective: Fall 2004****Rationale:** This class is necessary for implementation of the Au.D. degree and to satisfy the audiology certification requirements of ASHA.**Course format and location:** Classroom lecture**Impact on other academic units:** None**Financial impact:** None**605 Speech Perception and Hearing Impairment (3)** Study of perception of nonspeech and speech stimuli, with particular emphases on the effects of hearing impairment on perception.

Effective: Fall 2004

Rationale: This class is necessary for implementation of the Au.D. degree and to satisfy the audiology certification requirements of ASHA.

Course format and location: Classroom lecture and student presentations

Impact on other academic units: None

Financial impact: None

662 Seminar in Audiologic Assessment (3) Synthesis of information on audiologic and vestibular assessment and application of clinical cases. Prereq: 542, 546, 574, 576, and 577, or equivalents or consent of instructor.

Effective: Fall 2004

663 Seminar in Aural Rehabilitation (3) Synthesis of information on audiologic habilitation and rehabilitation cases. Prereq: 543, 544, 584, 594, or equivalents or consent of instructor.

Effective: Fall 2004

Rationale: These two courses were to be taught under a single course number (650 Advanced Seminar in Audiology). The two seminars need their own course numbers and descriptions, in part because both will be taught in the final semester of the Au.D. program.

Course format and location: Classroom discussion and student presentations

Impact on other academic units: None

Financial impact: None

REVISE TITLE AND DESCRIPTION

From

522 Seminar in Articulation and Phonological Processing Disorders (3) Current research in diagnosis and management of articulation and phonological processing disorders. Prereq: 435 or equivalent or consent of instructor.

To

522 Seminar in Speech Sound Disorders (3) Current research in diagnosis and management of speech sound disorders. Prereq: 435 or equivalent or consent of instructor.

Effective: Fall 2004

Rationale: The revisions more accurately reflect current speech-language pathology practice.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE PREREQUISITE

602 Psychoacoustics (3) Prereq: 507 or equivalent or consent of instructor.

(Formerly: 507 and 610)

Effective: Fall 2004

Rationale: 610 was dropped.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE CREDIT HOURS

609 Seminar in Speech Science (3)

(Formerly: 2)

Effective: Fall 2004

Rationale: This change will give students and faculty appropriate credit for the amount of work required in the class and allow more flexibility and time to cover advanced topics.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE REPETITION

From

657 Directed Study in Speech Pathology (1-3) Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

To

657 Directed Study in Speech Pathology (1-3) Prereq: Consent of instructor. May be repeated. Maximum 9 hours.

From

658 Directed Study in Audiology (1-3) Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

To

658 Directed Study in Audiology (1-3) Prereq: Consent of instructor. May be repeated. Maximum 9 hours.

From

659 Directed Study in Speech Science (1-3) Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

To

659 Directed Study in Speech Science (1-3) Prereq: Consent of instructor. May be repeated. Maximum 9 hours.

From

660 Directed Study in Hearing Science (1-3) Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

To

660 Directed Study in Hearing Science (1-3) Prereq: Consent of instructor. May be repeated. Maximum 9 hours.

Effective: Fall 2004

Rationale: Change in maximum hours for these courses is needed to increase available hours in directed study to meet doctoral program needs.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF BOTANY

Botany (198)

REVISE CROSS-LISTING TO MAKE THE PRIMARY COURSE A SECONDARY COURSE

From

451 Plant Tissue Culture (3) Methods for the culture of cells, tissues, and organs including media preparation and maintenance of cultures. Lecture and lab. Prereq: 110-120 or Biology 130-140 or equivalent and Chemistry 120-130 or equivalent. Recommended: 310, 321, 412; Microbiology 310 or 319; Plant Science and Landscape Systems 330. (Same as Plant Science and Landscape Systems 451)

To

451 Plant Tissue Culture (3) (Same as Entomology and Plant Pathology 451 and Plant Sciences 451.)

Primary course is Entomology and Plant Pathology 451.

Effective: Fall 2004

Rationale: This course is being taken over by an instructor in Entomology and Plant Pathology and is being moved to that department.

Course format and location: n/a

Impact on other academic units: Cross-listed with Entomology and Plant Pathology and with Plant Sciences.

Financial impact: None

DEPARTMENT OF CHEMISTRY**REVISE REQUIREMENTS FOR THE MS IN CHEMISTRY**

On page 69 of the 2003-2004 Graduate Catalog, 1st Column, under the Master's Program, REVISE Number 4.

To

4. Sufficient graduate course work in chemistry (at the 400 level or above) and/or a related field to make an overall total of 30 hours, including one of the following sequences: 510-511-512, three of 530-531-532-533, 550-551-552, 570-572-573 and 590-594-595.

Effective: Fall 2004**REVISE REQUIREMENTS FOR THE PhD – CHEMISTRY**

On page 69 of the 2003-2004 Graduate Catalog, 1st Column, under The Doctoral Program, Revise Number 5

To

5. Eighteen additional hours in courses at the 500 level or above including at least one course above 601 and one of the following sequences: 510-511-512, 530-531-532-533, 550-551-552-553-554, 570-571-572-573 and 590-594-595.

Effective: Fall 2004

Rationale: The two above revisions reflect the availability of 533.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

Chemistry (235)

ADD

533 Chemistry of the Transition Metals (3) Theoretical and experimental foundations of modern coordination, organometallic, and bio-inorganic chemistry of transition metals; transition metal mediated catalysis, materials chemistry, isolobal theory, kinetics and mechanism of reactions of transition metals, and applications in organic synthesis. Required background: One semester of inorganic chemistry.

Effective: Fall 2004

Rationale: Modern inorganic chemistry has seen explosive interest in transition metal biological applications, organometallic reagents, materials chemistry, catalysts in important processes, and in organic synthesis. Attention to this increasingly important field at graduate level is required.

Course format and location: Classroom lecture

Impact on other academic units: None

Financial impact: None

DROP

540 Nuclear and Radiochemistry (3)**Effective: Fall 2004**

Rationale: Interest in this topic has declined somewhat and it can be handled via the occasional selected topics course as needed.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF CLASSICS

REVISE CATALOG TEXT

On page 75 of the 2003-2004 Graduate Catalog, 1st Column, 1st Paragraph, REVISE

To

The graduate courses in the Classics include the wider reading of Greek and Latin authors in a selected field, a more detailed study of one of the great genres of classical literature, and the development of background for the appreciation of Greek or Roman life and literature.

Students admitted to the Anthropology M.A. may pursue a concentration in Mediterranean archaeology.

Effective: Fall 2004

Rationale: this is a reference to the new concentration in the Anthropology M.A.

Course format and location: n/a

Impact on other academic units: Anthropology and History may adjust their course offerings.

Financial impact: None

Classics (257)

ADD FOR GRADUATE CREDIT AND CROSS-LIST

436 Cities and Sanctuaries of the Greek and Roman World (3) Major cities and sanctuaries in Greece, the Greek colonies, and the Roman Empire. Approach is archaeological, focusing on physical evidence--landscape, architecture and artifacts--as well as description of ancient authors. Cities include various types: planned and unplanned, seaports, caravan centers, government and commercial centers. The sanctuaries also vary in function including prophetic centers, athletic centers, theater centers, and healing centers. Writing-emphasis course. (Same as Anthropology 436.)

Primary course is Classics 436.

Effective: Fall 2004

Rationale: This is an existing undergraduate course (334 being renumbered) that will be used in the new concentration in the Anthropology M.A.

Course format and location: Classroom lecture and discussion

Impact on other academic units: Cross-listed with Anthropology

Financial impact: None

REVISE TITLE, DESCRIPTION, AND CROSS-LIST

From

562 Problems in Old World Archaeology (3) Selected topics and research problems in European, Asian and African prehistory. Prereq: Consent of instructor. May be repeated. Maximum 9 hours.

To

562 Special Topics in Mediterranean Archaeology (3) Selected topics in archaeology or art of the prehistoric Aegean, historic Greece or Rome. Lectures, discussions, student presentations, and papers. May be repeated. Maximum 9 hours. (Same as Anthropology 562.)

Primary course is Classics 562.

Effective: Fall 2004

Rationale: This course will be part of the cooperative M.A. with Anthropology and History.

Course format and location: Classroom lecture and discussion.

Impact on other academic units: Cross-listed with Anthropology.

Financial impact: None.

DROP

461 Studies in Classical Archaeology (3)

561 Special Topics in Classical Civilization (3)

Effective: Fall 2004

Rationale: These courses are being replaced by more specific courses for the cooperative M.A. with Anthropology and History.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

ADD FOR GRADUATE CREDIT AND CROSS-LIST

442 Intensive Survey of the Archaeology of the Prehistoric Aegean (3) Survey of archaeology and art of the Aegean from the earliest human to the rise of the Greek polis in the 8th century B.C. Highlights include Early Cycladic art, Minoan and Mycenaean complex societies, Thera, cultural interconnections with Egypt and the Near East, and the Trojan War. Emphasis on anthropological and modern art historical approaches. Writing-emphasis course. (Same as Anthropology 442.)

Primary course is Classics 442.

443 Intensive Survey of the Archaeology of Greece (3) Survey of the archaeology and art of Greece and the Greek-speaking areas from the Orientalizing through Hellenistic periods (c. 700 – 30 B.C.). Developments in architecture, sculpture, and vase painting seen in the context of changes in society. Archaeological evidence for daily life, economy, and political institutions. Writing-emphasis course. (Same as Anthropology 443.)

Primary course is Classics 443.

444 Intensive Survey of the Archaeology of Etruria and Rome (3) Survey of the archaeology of Italy and the Roman World from prehistoric times to the fall of the Roman Empire (1000 B.C. – A.D. 476). Highlights are the rise and decline of Etruscan culture, the development of Roman architecture, art, and urban planning, art and architecture used for political propaganda, and Roman cosmopolitan culture during the Empire. Writing-emphasis course. (Same as Anthropology 444.)

Primary course is Classics 444.

ADD AND CROSS-LIST

565 Graduate Seminar in Ancient Mediterranean Civilization (3) Theoretical and practical issues in the civilizations of the prehistoric Aegean or historic Greece. Study and discussions conducted in seminar format. Emphasis on developing students' skills in research and oral as well as written presentation. May be repeated. (Same as Anthropology 565.)

Primary course is Classics 565.

Effective: Fall 2004

Rationale: These courses will be part of the cooperative M.A. with Anthropology and History.

Course format and location: Classroom lecture and discussion

Impact on other academic units: All are cross-listed with Anthropology.

Financial impact: None

DEPARTMENT OF EARTH AND PLANETARY SCIENCES

Geology (424)

REVISE PREREQUISITES

401 Quantitative Methods in Geology (3) Prereq: two 100-level geology courses and Mathematics 141, or consent of instructor.

(Formerly: The Dynamic Earth or Earth, Life, and Time, 2 semesters of Calculus)

450 Process Geomorphology (3) Prereq: two 100-level geology courses or consent of instructor.

(Formerly: 101-102)

455 Basic Environmental Geology (3) Prereq: one 100-level geology course or consent of instructor.

(Formerly: The Dynamic Earth)

470 Applied Geophysics (3) Prereq: 6 hours of geology courses numbered above 300 and Physics 135-136 or equivalent, or consent of instructor.

(Formerly: 6 hours of geology courses numbered above 300, Elements of Physics)

485 Principles of Hydrogeology (3) Prereq: one 100-level geology course, Mathematics 141-142, and Physics 135 or 136 or equivalent, or consent of instructor.

(Formerly: The Dynamic Earth; Calculus; Fundamentals of Physics or equivalent, or consent of instructor)

Effective: Fall 2004

Rationale: Prerequisite changes are necessary to be consistent with departmental curricula changes adopted Fall 2003 and to more closely reflect the requirements of the courses.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

ADD

501 Fractal Models in Earth Sciences (3) An introduction to the theory and methods of fractal analysis as applicable to earth sciences. Topics include deterministic and statistical fractals, self-affine fractals, multifractals, percolation, renormalization group theory, cellular automata, and methods of estimating fractal parameters (e.g., dimension and lacunarity). Applications to be discussed include: characterization of coastlines, drainage basins, and fracture networks; terrain simulation; modeling porous media and hydraulic properties; rock fragmentation; spatial variability of mineral deposits; and temporal variability of earthquakes and floods. Prereq: 401, or at least two Earth Science related courses, or consent of instructor.

Effective: Fall 2004

Rationale: This course is a logical extension of 401 in building students' quantitative skills as applicable to earth sciences. The course will be particularly useful to students interested in the area of fractal geometry.

Course format and location: Classroom lectures and discussions.

Impact on other academic units: None

Financial impact: None

539 Geologic Applications of Remote Sensing (3) An introduction to the use of visible, infrared, microwave/radio, and nuclear remote sensing techniques in the geologic study of the Earth. Topics covered include mineral spectroscopy, light scattering models, instrumentation for remote sensing, calibration and atmospheric removal, multi- and hyperspectral image cube analysis, and ground-truthing techniques. Emphasis on working directly with remote sensing data to solve geologic problems. 2 lecture hrs and one 2-hour lab. Prereq: 310; Mathematics 141-142; and Physics 135; or consent of instructor.

Effective: Fall 2004

Rationale: This course is in the field of specialization of a recently appointed tenure-track faculty member. Pilot versions of the course have been offered as special topics or independent study courses when Dr. Moersch was a Research Professor in the department.

Course format and location: Classroom lecture and laboratory.

Impact on other academic units: None

Financial impact: None

- 561 Organic Geochemistry (3)** Fundamentals of organic geochemistry; primary production, diagenesis, and preservation of organic matter in the sedimentary rock records; and reconstruction of ancient geologic environments using biomarker compounds. 3 lecture hours. Prereq: Chemistry 120-130 or equivalent or consent of instructor

Effective: Fall 2004

Rationale: This course is in the field of specialization of a recently appointed faculty member, Dr. Maria Uhle. The course has been offered as a special problems course and now needs to be included as a regular course in the curriculum.

Course format and location: Classroom lecture

Impact on other academic units: None

Financial impact: None

REVISE TITLE

- 535 Applied Ground Water Hydrology (3)** (Same as Environmental Engineering 535)

(Formerly: Groundwater Hydrology)

Primary course is Environmental Engineering 535.

Effective: Fall 2004

Rationale: The primary department is changing the name of the course.

Course format and location: n/a

Impact on other academic units: Cross-listed with Environmental Engineering

Financial impact: None

DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY

Ecology and Evolutionary Biology (278)

ADD FOR GRADUATE CREDIT

- 421 Community Ecology (3)** Interactions between individuals, species, communities and environments, including competition, coexistence, predation, herbivory; causes and consequences of biological diversity; biological invasions; application of advanced sampling and analysis techniques; local to global environmental change. Periodic field trips or laboratories. Prereq: Biology 250 or equivalent.

Effective: Fall 2004

Rationale: This course will provide much-needed content on species, community, and ecosystem processes, as well as augment departmental emphasis on field-oriented, experiential courses.

Course format and location: Classroom lecture and periodic laboratory and field trips

Impact on other academic units: None

Financial impact: Van rental for periodic field trips and minor supplies and teaching materials—costs commensurate with similar courses in the department. Costs will be defrayed by instituting a nominal laboratory fee.

REVISE DESCRIPTION TO ADD REPETITION

From

- 461 Special Topics in Organismal Biology (3)** Evolution, ecology, biogeography, classification, and anatomy of selected animal and plant taxa. Prereq: Biology 250 or consent of instructor.

To

- 461 Special Topics in Organismal Biology (3)** Evolution, ecology, biogeography, classification, and anatomy of selected animal and plant taxa. Prereq: Biology 250 or consent of instructor. May be repeated if topic differs. Maximum 12 hours.

Effective: Fall 2004

Rationale: The specialty courses offered on an irregular basis under this course do not overlap in material covered and students should be encouraged to take as many of the offerings as they might be interested in. The repetition statement was an oversight in the original course description.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF ENGLISH

English (339)

ADD FOR GRADUATE CREDIT

423 Colonial and Postcolonial Literature (3) Emphasis on historical and theoretical methodologies for reading colonial and postcolonial literature. May be repeated once with instructor's consent.

Effective: Fall 2004

Rationale: There has been explosive growth in the last 40 years in the field of Postcolonial studies. Additional hire makes this course possible.

Course format and location: Classroom lecture

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF GEOGRAPHY

Geography (415)

REVISE PRIMARY COURSE TO DROP CROSS- LISTING

411 Computer Mapping and Geographic Information Systems (3)

Formerly: Same as Information Management 431.

510 Geographic Software Design (3)

Formerly: Same as Information Management 531.

517 Geographic Information Management and Processing (3)

Formerly: Same as Information Management 532.

Effective: Fall 2004

Rationale: College of Business Administration is dropping the three secondary cross-listed courses. The Information Management courses no longer require cross-listings because the Information Management concentration previously offered by the MBA program is no longer offered.

-----Original Message-----

From: bralston [<mailto:bralston@utk.edu>]
Sent: Monday, December 29, 2003 3:20 PM
To: stacia couch

Subject: RE: Graduate Council Memo for Fred Pierce

I approve of dropping the cross listing of Geography 411, 510 and 517 with IM 431, 531, and 532.

Bruce Ralston
Professor and Head

DEPARTMENT OF HISTORY

History (462)

ADD

515 Introduction to American History to 1840s (3) Survey of major themes, methodologies, and interpretations in early American historiography.

516 Introduction to American History, 1840s –present (3) Survey of major themes, methodologies, and interpretations in modern American historiography.

Effective: Fall 2004

Rationale: These courses reflect curricular changes in the graduate program.

Course format and location: Classroom seminar

Impact on other academic units: None

Financial impact: None

631 Seminar in Pre-Modern European History (3) Research seminar in primary sources. Focus varies. May be repeated. Maximum 15 hours.

Effective: Fall 2004

Rationale: This course reflects recent hires and the expansion of the graduate program to include pre-modern Europe as M.A. and Ph.D. field, and the new Medieval and Renaissance Curriculum and Outreach Project.

Course format and location: Classroom seminar

Impact on other academic units: None

Financial impact: None

641 Seminar in 17th and 18th-century America (3) Research seminar in primary sources. Focus varies. May be repeated. Maximum 15 hours.

Rationale: This course reflects recent hires and corrects previous oversight in the graduate curriculum.

Course format and location: Classroom seminar

Impact on other academic units: None

Financial impact: None

Effective: Fall 2004

INTERDISCIPLINARY PROGRAMS

Legal Studies (617)

ADD FOR GRADUATE CREDIT AND CROSS-LIST

445 Administration of Justice (3) (Same as Political Science 445)

Primary course is Political Science 445.

Effective: Fall 2004

Rationale: This is a new Political Science course that is appropriate for the Legal Studies program.

Course format and location: Classroom lecture and discussion

Impact on other academic units: Cross-listed with Political Science

Financial impact: None

REVISE CROSS-LISTING

400 Mass Communication Law and Ethics (3) (Same as Journalism and Electronic Media 400.)

(Formerly: Same as Communication 400.)

Primary course is Journalism and Electronic Media 400.

Effective: Fall 2004

Rationale: Academic discipline of primary course is changing from Communication to Journalism and Electronic Media.

Women's Studies (994)

DROP FOR GRADUATE CREDIT

466 Rhetoric of the Woman's Rights Movement to 1930 (3) (Same as Communication Studies 400.)

Primary course is Communication Studies 400.

476 Rhetoric of the Contemporary Feminist Movement (3) (Same as Communication Studies 476.)

Primary course is Communication Studies 476.

Effective: Fall 2004

Rationale: These are cross-listed courses and the primary courses are being dropped for graduate credit.

LIFE SCIENCES**Life Sciences (621)**

REVISE REPETITION

From

503 Graduate Research Participation (3-12) Special advanced research project not related to dissertation research. Topics chosen with consent of instructor. May be repeated. Maximum 3 hours.

To

503 Graduate Research Participation (3-12) Special advanced research project not related to dissertation research. Topics chosen with consent of instructor. May be repeated. Maximum 12 hours.

Effective: Fall 2004

Rationale: The catalog currently indicates that students can take 3 to 12 hours in a given semester with a maximum of 3 hours which is incompatible. The maximum should be 12 hours.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE REPETITION

From

505 Research Rotation (2) Laboratory rotations with faculty member on clearly defined projects. Written proposal and oral report. May be repeated. Maximum 6 hours.

To

505 Research Rotation (2) Laboratory rotations with faculty member on clearly defined projects. Written proposal and oral report. May be repeated. Maximum 8 hours.

Effective: Fall 2004

Rationale: The program requires that a Ph.D. student participate in four 2 hour rotations but the current catalog limits the total hours to 6 instead of 8.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE DESCRIPTION

From

520-521 Genome Science and Technology I, II (4,4) 520- Overview of genomics, advanced genetics principles, computational biology and bioinformatics. 521- Computational biology and informatics, analytical technologies and special techniques.

To

520-521 Genome Science and Technology I, II (4,4) 520- Overview of genomics, advanced genetics principles. 521- Analytical technologies and special techniques.

Effective: Fall 2004

Rationale: A separate course is now offered that covers computational biology and bioinformatics.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE DESCRIPTION, REPETITION, AND GRADING

From

540-541 Colloquium (1,1) Invited speakers. Topics announced in advance. Required every semester in residence after first year. May be repeated. Maximum 6 hrs.

To

540-541 Colloquium (1,1) Invited speakers. Topics announced in advance. May be repeated. Maximum 12 hours. Satisfactory/No Credit grading only.

Effective: Fall 2004

Rationale: Program no longer requires the course to be taken every semester; maximum hours should be increased to encourage students to take the course whenever offered; this is a seminar course with guest lecturers and does not require graded work from students.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE REPETITION

From

595-596 Special Topics in Genome Science and Technology (1-3) Tutorials or lectures in variety of special topics to be chosen by instructor. May be repeated. Maximum 4 hours.

To

595-596 Special Topics in Genome Science and Technology (1-3) Tutorials or lectures in variety of special topics to be chosen by instructor. May be repeated. Maximum 12 hours.

Effective: Fall 2004

Rationale: The maximum of 4 hours restricts students to taking the course only once since it is generally a 3 hour course.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE REPETITION

From

695-696 Advanced Topics in Genome Science and Technology (1-3) Tutorials or lectures on variety of advanced topics to be chosen by instructor. May be repeated. Maximum 4 hours.

To

695-696 Advanced Topics in Genome Science and Technology (1-3) Tutorials or lectures on variety of advanced topics to be chosen by instructor. May be repeated. Maximum 12 hours.

Effective: Fall 2004

Rationale: The maximum of 4 hours restricts students to taking the course only once since it is generally a 3 hour course.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DROP

506 Computational Biology and Genome Informatics (3)

Effective: Fall 2004

Rationale: This course has been significantly revised and warrants a new number—will be replaced by proposed course addition 507.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DROP

610 Advanced Topics in Life Sciences (1-3)

Effective: Fall 2004

Rationale: This course description is redundant with 695-696.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

ADD

507 Bioinformatics and Computational Biology (1-3) Topics to be covered include the application of computing, modeling, data analysis, and information technology to fundamental problems in the life sciences. May be repeated. Maximum 12 hrs.

Effective: Fall 2004

Rationale: This course replaces 506.

Course format and location: Computer laboratory course

Impact on other academic units: None

Financial impact: None

ADD

615 Journal Club in Genome Science and Technology (1) Reading and discussion based on current literature. May be repeated. Maximum 12 hrs. Satisfactory/No Credit grading only.

Effective: Fall 2004

Rationale: The curriculum requires GST students to take a journal club every semester after the first year of study. Students have been taking journal clubs offered by other departments but need course more tailored to the GST program of study.

Course format and location: Small classroom discussion

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF MATHEMATICS

Mathematics (641)

APPROVE FOR ELECTRONICALLY-MEDIATED FORMAT

504 Discrete Mathematics for Teachers (3)

- Total Number of Weeks: 15

- Total Expected Student Time Commitment: 135 hours
- Course Designation: Tennessee-Online
- Student Site Requirements: Students must have access to a PC with a reasonably current Web browser, Internet access (at least a 56k modem) and the ability to run Centra software for two hours on Monday evenings to receive synchronous audio and video. They must also watch another hour of recorded lecture through Centra asynchronously each week or work through Powerpoint lecture notes of the instructor's design over the same material, distributed through Blackboard. They must have access to the Internet to log in to the Online@UT site at their convenience during the week.
- What is the nature and quantity of structured student/instructor interaction?
Students attend a two-hour lecture using the Centra system on Monday nights. I lecture to them using a Smartboard. Centra provides two-way audio and the ability to see what I write on the board. I prepare the lectures using Powerpoint, and Centra displays the slides for viewing by both my local students and the distance students. The students must watch a third asynchronous hour of lecture that I record each week or else work through my Powerpoint notes over that material.
- What is the nature and quantity of structured student/student interaction?
Students are required to post relevant discrete mathematics URL's. Each week on average someone must post a proof on the discussion boards for class discussion. Students are encouraged to read each other's solutions and to post homework questions for class discussion.

Effective: Spring 2004

507 Probability and Statistics for Teachers (3)

- Total Number of Weeks: 15
- Total Expected Student Time Commitment : 135 hours
- Course Designation: Tennessee-Online
- Student Site Requirements (for example: on campus three times a week, on campus once a week and access to on- or off-campus synchronous video twice a week, etc.): Students must have access to a PC with a reasonably current Web browser, Internet access (at least a 56k modem) and the ability to run Centra software for three hours on Wednesday evenings to receive synchronous audio and video. They must have access to the internet to log in to the Online@UT site at their convenience during the week.
- What is the nature and quantity of structured student/instructor interaction?
Students attend a 3-hour lecture using the Centra system on Wednesday nights. I lecture simultaneously to them and to a local class using a Smartboard. Centra provides two-way audio and the ability to see what I write on the board. I prepare the lectures using Powerpoint, and Centra displays the slides for viewing by both my local students and the distance students.
- What is the nature and quantity of structured student/student interaction?
Students are required to post personal web sites, relevant probability and statistics URL's, and weekly homework assignments on the discussion boards in Online@UT. Students are encouraged to read each other's solutions and to post homework questions for class discussion.

Retroactive approval for: Fall 2003

509 Seminar for Teachers (3)

- Total Number of Weeks: 15
- Total Expected Student Time Commitment: 135 hours
- Course Designation: Tennessee-Online
- Student Site Requirements (for example: on campus three times a week, on campus once a week and access to on- or off-campus synchronous video twice a week, etc.): Students must have access to a PC with a reasonably current Web browser, Internet access (at least a 56k modem) and the ability to run Centra software for three hours on Wednesday evenings to receive synchronous audio and video. They must have access to the internet to log in to the Online@UT site at their convenience during the week.
- What is the nature and quantity of structured student/instructor interaction?
Students attend a 3-hour lecture using the Centra system on Wednesday nights. I lecture simultaneously to them and to a local class using a Smartboard. Centra provides two-way audio and the ability to see what I write on the board. I prepare the lectures using Powerpoint, and Centra displays the slides for viewing by both my local students and the distance students.
- What is the nature and quantity of structured student/student interaction?

Students are required to post personal web sites, relevant geometry and complex numbers URL's, and weekly homework assignments on the discussion boards in Online@UT. Students are encouraged to read each other's solutions and to post homework questions for class discussion.

Effective: Spring 2004

DEPARTMENT OF MODERN FOREIGN LANGUAGES AND LITERATURES

Asian Languages (144)

REVISE TITLE, DESCRIPTION, REPETITION

From

451 Readings in Japanese Literature (3) Prereq: Mastery of intermediate-level of Japanese or consent of instructor. May be repeated. Maximum 9 hours.

To

451 Readings in Pre-Modern Japanese Literature (3) Prereq: Mastery of intermediate-level Japanese or consent of instructor.

Effective: Fall 2004

ADD

452 Readings in Modern Japanese Literature (3) Prereq: Mastery of intermediate-level Japanese or consent of instructor.

Effective: Fall 2004

Rationale: These two changes will add a full fourth year to the Japanese program. Currently 451 is the only course offered beyond the third-year level and is offered only in the spring semester. Students had to wait for a semester after finishing third year Japanese before they could enroll in the one semester of fourth year.

Course format and location: Classroom lecture and discussion

Impact on other academic units: None

Financial impact: Cost of instructor to cover one course for one semester

Spanish (924)

REVISE TITLE

551 Special Topics in Hispanic Literature or Linguistics (3)

(Formerly: Special Topics in Spanish or Spanish American Literature.)

Effective: Fall 2004

Rationale: The title change enables the department to include linguistics as well as literature. The change reflects a new emphasis in the program and recent staffing changes.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

SCHOOL OF MUSIC

Music Ensemble (708)

DROP

520 UT Singers (1)

Effective: Fall 2004

Rationale: This course is not needed at the graduate level. There is still an undergraduate UT Singers Ensemble.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

ADD

583 Men's Chorale (1) May be repeated. Maximum 4 hrs.

Effective: Fall 2004

Rationale: The course is needed to complement the undergraduate Men's Chorale and allow for another ensemble option to graduate students.

Course format and location: laboratory

Impact on other academic units: None

Financial impact: None

Music History (709)

REVISE TITLE AND DESCRIPTION

From

540 Music in the Renaissance (3) From 1400 to 1600. Mass, motet, chansons, madrigal and other vocal and instrumental forms and genres.

To

540 Music of the Medieval and Renaissance Periods (3) Survey of major musical phenomena from c. 900 to c. 1600. Chant, troubadour/trouvere song, Notre Dame polyphony, Ars Nova, Ars subtilior, madrigal, chanson, mass and motet. Musical developments considered against historical, cultural, analytical, and literary frameworks.

Effective: Fall 2004

Rationale: The current array of historical period courses at the 500-level excludes the middle ages. This change would address this omission and utilize the medieval specialty of new musicology faculty.

Course format and location: Classroom discussion

Impact on other academic units: None

Financial impact: None

ADD

586 Topics in Opera (3) Topics vary within operatic repertory from the 17th c. to the present including music and drama; interdisciplinary, race, or gender studies; realism; nationalism; expressionism; minimalism. May be repeated. Maximum 6 hours.

Effective: Fall 2004

Rationale: This seminar is vital to both our faculty and graduate students who share interest in opera. It aims to complement the performance skills of singers and performers by strengthening their historical knowledge of the genre.

Course format and location: Classroom discussion

Impact on other academic units: None

Financial impact: None

596 Seminar in Historical Musicology (3) Topics vary; specific musical genre, composer, or phenomenon. May be repeated. Maximum 6 hours.

Effective: Fall 2004

Rationale: This seminar will provide graduate students with an in-depth study of a single, specific issue in historical musicology and expose them to a variety of analytical, aesthetic, philosophical, and interdisciplinary methodologies. It will expose students closely to faculty specialized areas of research and knowledge, some of which cannot be accommodated by existing courses.

Course format and location: Classroom discussion

Impact on other academic units: None

Financial impact: None

Music Keyboard (712)

REVISE REPETITION

From

520 Piano Literature Seminar (3) Topics vary. May be repeated. Maximum 6 hours.

To

520 Piano Literature Seminar (3) Topics vary. May be repeated. Maximum 9 hours.**Effective: Fall 2004**

Rationale: Many keyboard graduate students are lacking in keyboard literature knowledge. Extra hours are needed to remedy this deficiency.

Course format and location: n/a

Impact on other academic areas: None

Financial impact: None

REVISE TITLE, DESCRIPTION, AND REPETITION

From

540 Advanced Piano Pedagogy I (2) Evaluation and study of methods and materials for teaching piano at all levels. Supervised laboratory teaching. Prereq: Consent of instructor.

To

540 Advanced Piano Pedagogy (2) Topics vary. Evaluation and study of methods and materials for teaching piano at all levels. Supervised laboratory teaching. Prereq: Consent of instructor. May be repeated. Maximum 8 hours.

(Formerly: no repetition)

Effective: Fall 2004

Rationale: Simplification of two courses into one with varying topics will prevent problems with registration. Repetition will allow students to be exposed to varying teaching techniques and have more supervised teaching experience.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DROP

550 Advanced Piano Pedagogy II (2)**Effective: Fall 2004**

Rationale: Course is no longer needed due to change in 540.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF PHILOSOPHY**Philosophy (745)**

REVISE GRADING

593 Independent Study (1-15) Satisfactory/No Credit or letter grade.

(Formerly: Letter grade)

Effective: Fall 2004

Rationale: This allows further options for instructors taking on Independent Studies as extra courses.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DEPARTMENT OF POLITICAL SCIENCE**Political Science (801)**

ADD FOR GRADUATE CREDIT

425 Media and Politics (3) Examines the interrelationship between the political system and the media from a political science perspective.

ADD FOR GRADUATE CREDIT AND CROSS-LIST

445 Administration of Justice (3) Administration and processes of justice system, including judicial administration and decision making in trial and appellate courts. (Same as Legal Studies 445)

Primary course is Political Science 445.

Effective: Fall 2004

Rationale: This course fills a gap in the American government/public administration curriculum and supports the Legal Studies program.

Course format and location: Classroom lecture and discussion

Impact on other academic units: Cross-listed with Legal Studies

Financial impact: None

DEPARTMENT OF PSYCHOLOGY

REVISE COMMITTEE/COMPREHENSIVE EXAM REQUIREMENTS FOR THE PhD IN PSYCHOLOGY – CLINICAL PSYCHOLOGY CONCENTRATION.

On Page 177 of the 2003-2004 Graduate Catalog, 3rd Column, Clinical Psychology, 3rd Paragraph, REVISE 1st Sentence.

To

After forming the doctoral committee, each student must pass a comprehensive examination administered and evaluated by the committee.

Effective: Fall 2004

Rationale: Since students are ready to form their doctoral committees after completing the predissertation research, and they are ready to take their comprehensive examinations, advisory committees are not necessary.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

REVISE REQUIREMENTS FOR THE PhD IN PSYCHOLOGY – CLINICAL PSYCHOLOGY CONCENTRATION.

On Page 178 of the 2003-2004 Graduate Catalog, 1st Column, Alphabetical List Under Number 4, REVISE e, l, n:

To

e. Personality: Theory and Research I (570) and Developmental Psychopathology (597)

l. Clinical Psychopathology (599)

n. Ethical Issues in Professional Psychology (598)

Effective: Fall 2004

Rationale: These changes are necessary because of the addition of 597, 598, and 599.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

Psychology (830)

ADD

597 Developmental Psychopathology (3) Research and theory on pathways to psychological disorders and personal adjustment. Prereq: 571, or equivalent or consent of instructor.

Effective: Fall 2004

Rationale: Currently the clinical program has no course in the development of abnormal behavior.

Course format and location: Classroom seminar

Impact on other academic units: None

Financial impact: None

598 Ethical Issues in Professional Psychology (3) Conceptual and practical applications in human services and research. Prereq: consent of instructor.

Effective: Fall 2004

Rationale: Students currently receive instruction in ethical and professional issues in psychology as part of a Field Placement in our Psychological Clinic. This content area will be expanded and specified through this course.

Course format and location: Seminar

Impact on other academic units: None

Financial impact: None

599 Clinical Psychopathology (3) Formal use of descriptive categories used in the diagnosis of abnormal behavior. Prereq: 597, or equivalent or consent of instructor.

Effective: Fall 2004

Rationale: Clinical students are already taught to use these categories as part of their Field Placement practicum in our Psychological Clinic. This content area will be expanded and specified through this course.

Course format and location: Seminar

Impact on other academic units: None

Financial impact: None

CATALOG CORRECTION TO UPDATE ACADEMIC DISCIPLINE OF CROSS-LISTED COURSES

635 Ethical, Legal and Professional Issues in Psychology (3) (Same as Educational Psychology 635 and Counselor Education 635.)

(Catalog has former academic disciplines of the two cross-listed courses: Psychoeducational Studies and Counselor Education and Counseling Psychology. The former academic disciplines no longer exist.)

Effective: Fall 2004

DEPARTMENT OF SOCIOLOGY

Sociology (915)

REVISE TITLE, CREDIT HOURS, DESCRIPTION, AND GRADING

From

510 Teaching Sociology (3) Art and craft of teaching sociology from curricular considerations through teaching techniques. May be repeated. Maximum 6 hours.

To

510 Professional Preparation (1) A variety of one-credit seminars that offer training in specific aspects of professional socialization. May be repeated. Maximum 6 hours. Satisfactory/No Credit grading only.

Effective: Fall 2004

Rationale: Changes in the careers of sociologists necessitates the department's actions to improve our professional socialization of graduate students.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DROP PRIMARY CROSS-LISTED COURSE

405 Sociology of Sport (3) (Same as Sport Studies 405)

Primary course is Sociology 405.

Effective: Fall 2004

Rationale: Change in primary department requirements. Not consonant with mission statement of Sociology.

Course format and location: n/a

Impact on other academic units: Cross-listed with Sport Studies

Financial impact: None

DROP SECONDARY CROSS-LISTED COURSE

580 Advanced Rural Sociology (3) (Same as Rural Sociology 580)

Primary course is Rural Sociology 580.

Effective: Fall 2004

Rationale: Primary department no longer exists.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

DROP FOR GRADUATE CREDIT

414 Sociology of Health Care (3)

DROP

563 Demographic Techniques (3)

Effective: Fall 2004

Rationale: These courses are not consonant with the mission statement of the department.

Course format and location: n/a

Impact on other academic units: None

Financial impact: None

ADD

506 Social Justice and Public Policy (3) Examines the formulation and consequences of public policy, analyzing: the general public policy process model; the model's specific applications to criminal justice policy, environmental policy, and economic and political policies; and techniques of policy evaluation research.

Effective: Fall 2004

Rationale: The department has recently adopted an overarching theme of "Social Justice" for the graduate program as a way of integrating existing research and teaching interest area of Criminology, Environmental Sociology and Political Economy, reducing the balkanization of faculty, students and permitting the doctoral student greater freedom to craft an individualized program. This team taught course is intended to introduce graduate students to the program theme, the established interest areas, and several faculty members.

Course format and location: Classroom lecture and discussion

Impact on other academic units: None

Financial impact: None

562 Sociology of Environmental Policy (3) Examines the history of environmental use and environmental protection; the policy process; the institutional and cultural barriers to improved environmental policies; and potential policies for sustainability.

Effective: Fall 2004

Rationale: This course was tried twice as a 400 level special topics course and it drew significant interest among graduate students. This addition also addresses external review criticism that the graduate program does not offer enough graduate seminars.

Course format and location: Classroom lecture and discussion

Impact on other academic units: Political Science offers an environmental policy course that is significantly different from this course. The two courses will complement, rather than compete with, each other. Many students are likely to take both courses.

Financial impact: None

DEPARTMENT OF THEATRE

Theatre (976)

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

From

440 Advanced Theatre Costume Design (3) Costume as an expressive element in dramatic production. Prereq: 340.

To

440 Costume Design II (3) Costume as an expressive element in dramatic production. Prereq: 340 or consent of instructor.

Effective: Fall 2004

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

From

456 Rendering (3) Techniques in monochrome and full color illustration of space and form. Some acquaintance with mechanical perspective and freehand sketching assumed.

To

456 Scenic Design II (3) Advanced studies in set design. Prereq: 355 or consent of instructor.

Effective: Fall 2004

REVISE TITLE AND DESCRIPTION

From

462 Advanced Lighting Design (3) Advanced lighting design theory and practice. Lab and project intensive. Prereq: 362 or consent of instructor.

To

462 Lighting Design II (3) Advanced lighting design theory and practice. Lab and project intensive. Prereq: 362 or consent of instructor.

Effective: Fall 2004

Rationale: Each of these courses, as revised, will serve as the third course in a 3-course series in its design category.

Course format and location: Combination of classroom, lab, and field experience

Impact on other academic units: None

Financial impact: None

MEMORANDUM

TO: The University of Tennessee Graduate Council

FROM: Sarah Gardial, Interim Dean of Academic Programs

DATE: December 10, 2003

SUBJECT: Proposed Graduate Curricular Changes – College of Business Administration

The attached curricular proposals have been approved by the CBA Graduate Policies Committee and the faculty and are being submitted to the Graduate Council for consideration. The following is a summary of these proposals:

1. Change names of departments, fields of instruction, majors, concentrations, and course titles (where applicable) for Accounting and Business Law (to Accounting and Information Management), Marketing, Logistics and Transportation (to Marketing and Logistics), and Statistics (to Statistics, Operations and Management Science) and relocate fields of instruction in the catalog where appropriate.
2. Add cross-references in catalog to four fields of discipline (Information Management, Management Science, Operations Management, and Strategic Management) for students' ease of use and to reflect the move of the Information Management field to Accounting and the Management Science field to Statistics.
3. Accounting and Information Management
 - a. Drop Accounting 514 and replace it with new course Information Management 543
 - b. Restructure Accounting's two concentrations
 - c. Drop all Information Management cross-listed courses that are no longer used in the IM concentration
 - d. Revise course descriptions, titles, and/or prerequisites for Information Management 541, 542, and 549
4. Business Administration
 - a. Drop cross-listing of Information Management 501 with Business Administration 506
 - b. Drop Business Administration 515
 - c. Revise credit hours for Business Administration 514
 - d. Make changes to the MBA Core to reduce core hours and to remove the three-hour distance course taken during the internship (Summer)
 - e. Add nuclear engineering program to the Dual M.S.-MBA Program
5. Human Resource Development
 - a. Correct content and policies relating to the Human Resource Development curriculum that were inadvertently not included immediately when HRD joined the college.

6. Management
 - a. Revise cross-listing of Management 540
7. Marketing and Logistics
 - a. Drop all courses under the Logistics and Transportation academic discipline and add the courses under the new academic discipline: Logistics
 - b. Revise cross-listings of Marketing 611 and 612
8. Statistics, Operations and Management Science
 - a. Move the Management Science academic discipline to the Department of Statistics, Operations and Management Science
 - b. Revise Management Science 531 and 551 to drop cross-listing
 - c. Approve teaching two existing Statistics courses as electronically-mediated format courses (forms attached)

COLLEGE OF BUSINESS ADMINISTRATION

CHANGE DEPARTMENT NAMES

On page 3, Table of Contents of the 2003-2004 *Graduate Catalog*, under the listings of Fields of Instruction, REVISE the titles of the following fields of instruction (departments):

From	Accounting and Business Law
To	Accounting and Information Management
From	Marketing, Logistics and Transportation
To	Marketing and Logistics
From	Statistics
To	Statistics, Operations and Management Science

REVISE CATALOG TEXT TO REFLECT DEPARTMENTAL NAME CHANGES

On page 35, Colleges, College of Business Administration, of the 2003-2004 *Graduate Catalog*, change the names of the departments as follows: Accounting and Business Law to Accounting and Information Management; Marketing, Logistics and Transportation to Marketing and Logistics; Statistics to Statistics, Operations and Management Science.

EFFECTIVE DATE: FALL 2004**SUPPORTING INFORMATION:**

a. Rationale for departmental name changes: The approval paperwork for these departmental name changes is in progress, and we anticipate that these changes will be approved. More detailed rationale for these department name changes

Accounting and Information Management: The Accounting faculty composition, course offerings, and missions have evolved such that information management is central to its academic identity. This evolution reflects the changing nature of the profession, the integration of accounting and information management, and the college's need for an information management curriculum.

Marketing and Logistics: Renaming the department to Marketing and Logistics reflects the evolution of logistics as a discipline wherein transportation is a component of the logistics field.

Statistics, Operations and Management Science: Renaming the department to Statistics, Operations and Management Science reflects the merger of the former department of Statistics with the Management Science faculty group. Further, the department name will now include "Operations" because the Management Science faculty has always been responsible for teaching operations management content and because operations is an area of application for both statistics and management science methodologies and as such it provides a point of synergy for the faculties.

b. Course format and location: n/a

c. Impact on other academic units: None.

d. Financial impact: None

REVISE CATALOG TEXT

On page 3, Table of Contents of the 2003-2004 *Graduate Catalog*, under the listings of Fields of Instruction, add cross-references¹ to the following fields of instruction:

Information Management (*See Accounting*)

[Due to the change of the department name for Accounting and Information Management, the Information Management academic discipline should be moved under the Accounting and Information Management heading, rather than under the general Business Administration heading (currently page 67 of the 2003-2004 *Graduate Catalog*).]

¹ These cross-references should, of course, be added in the appropriate place alphabetically in the **Fields of Instruction** section of the catalog as well as in the Table of Contents.

Management Science (*See Statistics*)

[Due to the move of the management science faculty from the Management department to the Statistics, Operations and Management Science department, the Management Science academic discipline should be moved under the Statistics, Operations, and Management Science heading, rather than under its own heading (currently on page 139 of the 2003-2004 *Graduate Catalog*).]

Operations Management (*See Management*)

Strategic Management (*See Management*)

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: Adding references to these disciplines will enable students to locate fields of disciplines and concentrations more easily and will reflect the department name changes and the move of fields of discipline.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

CATALOG CORRECTIONS

On page 9 of the 2003-2004 *Graduate Catalog*, under the listing of the degree programs in College of Business Administration, please make the following corrections:

Under the Accounting major, Concentrations Available, change "systems" to "information management".

SUPPORTING INFORMATION:

- a. Rationale: The name of the concentration changed Fall 2003 but was not changed in the listing of degree programs.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

Under the Human Resource Development major, add an asterisk (*) to require non-degree students to obtain permission from the department/program head to register for courses in HRD.

SUPPORTING INFORMATION:

- a. Rationale: Omission of this requirement was an oversight in preparing catalog when the Human Resource Development major was brought into the college.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

EFFECTIVE DATE: FALL 2004

REVISE THE MBA AND PhD CONCENTRATION IN LOGISTICS AND TRANSPORTATION TO: LOGISTICS

Under the Business Administration major, Concentrations Available, change the MBA and the Ph.D. concentrations of Logistics and Transportation to Logistics.

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: Renaming the concentration to Logistics reflects the evolution of logistics as a discipline wherein transportation is a component of the logistics field.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

REVISE MAJORS CHART

To

Major College of Business Administration	Degree	Concentrations Available
Accounting*	M.Acc.	Assurance services, information management , taxation.
Business Administration*	MBA, Ph.D.	MBA —Finance, logistics , marketing, operations management. Ph.D. —Accounting, finance, human resource development, logistics , management, marketing, statistics. Dual J.D.-M.B.A. , M.S.-M.B.A. , Executive M.B.A. programs available.
Economics*	M.A., Ph.D.	
Human Resource Development*	M.S.	Training and development.
Industrial and Organizational Psychology*	Ph.D.	
Management Science*	M.S., Ph.D.	
Statistics*	M.S.	Industrial statistics. Certificate Program - applied statistical strategies.

DEPARTMENT OF ACCOUNTING AND BUSINESS LAW

REVISE FIELD OF INSTRUCTION (DEPARTMENT)

From

Accounting and Business Law

To

Accounting and Information Management

EFFECTIVE: FALL 2004**SUPPORTING INFORMATION:**

- a. Rationale: This change reflects the change in the department name; the rationale for which is provided above.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

Accounting (009)

DROP

514 Information Systems Control and Audit (3)**EFFECTIVE DATE: FALL 2004****SUPPORTING INFORMATION:**

- a. Rationale: A new course, Information Management 543, will replace this course. Accounting 514 was required of Master of Accountancy students in the Assurance concentration and the Information Management concentration. The replacement course will be required of both groups of students.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None

REVISE COURSE REQUIREMENTS FOR ASSURANCE SERVICES AND INFORMATION MANAGEMENT CONCENTRATIONS

To

Assurance Services: Acc 507, 518, 519, 531, IM 541, and **IM 543**.

To

Information Management: **IM 541, 542, 543, 549, Acc 507, and Acc 518**.**EFFECTIVE: FALL 2004****SUPPORTING INFORMATION:**

- a. Rationale: The change in the course requirements for the concentrations in Assurance Services and Information Management reflects the addition of a new course, Information Management 543, which replaces Accounting 514. Further, the change in content for the information management concentration supports the redirected focus of that concentration to prepare graduates for positions in the assurance function.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

Information Management (558)DROP INFORMATION MANAGEMENT² CROSS-LISTED COURSES**431 Computer Mapping and Geographic Information Systems (3)** (Same as Geography 411.)*Primary course is Geography 411.***501 Enterprise Process Redesign (3)** (Same as Business Administration 506.)*Primary course is Business Administration 506.***511 Risk Management in Networked Business Environments (3)** (Same as Accounting 514.)*Primary course is Accounting 514.***512 Electronic Commerce (3)** (Same as Accounting 542.)*Primary course was Accounting 542 which was dropped on page G99 of the Graduate Council Minutes dated January 30, 2003.***521 Logistics and Supply Chain Analytical Techniques (3)** (Same as Logistics and Transportation 509.)*Primary course, Logistics and Transportation 509, was revised to Logistics and Transportation 549, without the cross-listing, on page 36 of the Graduate Council Minutes dated January 24, 2002.***522 Leveraging Information Through Descriptive and Prescriptive Modeling (3)** (Same as Management Science 551.)*Primary course is Management Science 551.***531 Geographic Software Design (3)** (Same as Geography 510.)*Primary course is Geography 510.***532 Geographic Information Management and Processing (3)** (Same as Geography 517.)*Primary course is Geography 517.***EFFECTIVE: FALL 2004**

² Information Management changes are being covered under the Accounting and Information Management field of instruction (department) because, as indicated on page 3 of this memo, the Information Management academic discipline is being moved from under Business Administration to Accounting and should now appear after the Business Law section on page 40 of the 2003-2004 *Graduate Catalog*.

SUPPORTING INFORMATION

a. Rationale: These courses no longer require cross-listings because the Information Management concentration previously offered by the MBA program is no longer offered. Further, these courses have not been offered recently. Geography approved the dropping of IM 431, 531, and 532:

-----Original Message-----

From: bralston [<mailto:bralston@utk.edu>]

Sent: Monday, December 29, 2003 3:20 PM

To: stacia couch

Subject: RE: Graduate Council Memo for Fred Pierce

I approve of dropping the cross listing of Geography 411, 510 and 517 with IM 431, 531, and 532.

Bruce Ralston
Professor and Head

- b. Course format and location: n/a
c. Impact on other academic units: None expected.
d. Financial impact: None.

ADD

543 Systems Audit Security and Controls (3) Discusses information systems security, auditing/assurance, planning, and control issues. The course examines security and control issues primarily at the operating system level. Prereq. 541 or consent of instructor.

EFFECTIVE: FALL 2004

SUPPORTING INFORMATION

- a. Rationale: This course replaces Accounting 514, which is required of Master of Accountancy students in both the Assurance Services concentration and the Information Management concentration.
b. Course format and location: n/a
c. Impact on other academic units: None expected.
d. Financial impact: None.

EQUIVALENCY TABLE

Current Accounting Graduate Course	Equivalent IM Course (Fall 2004)
Accounting 514 Information Systems Control and Audit (3)	Information Management 543 Systems Audit Security and Controls (3)

REVISE DESCRIPTION AND PREREQUISITE

From

541 Advanced Database Systems (3) Advanced database issues including data modeling, database design, SQL programming syntax and structure, stored procedures, multi-user databases, web-enabled databases, and DB administration. This course uses the Oracle database system to discuss concepts and implement assignments. Prereq: 351 or consent of the instructor.

To

541 Advanced Database Systems (3) Illustrates and applies advanced database techniques including data modeling, database design, SQL, stored procedures, multi-user databases and web databases. Also covered are data security and control issues related to multi-user databases. In addition to MS Access, this course makes use of the Oracle database to introduce concepts and implement assignments. A database project is a major component of this course. Prereq: 341 or consent of the instructor.

EFFECTIVE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: To update course content and make the course available to students who have not previously completed a database course.
b. Course format and location: n/a
c. Impact on other academic units: None expected.
d. Financial impact: None.

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

From

542 e-Business (3) Internet technologies currently being used for implementation and control of e-businesses; security issues created by these technologies; the behavioral and organizational challenges being faced by firms that are integrating these technologies; and the impact of these Internet technologies on emerging business models. Comparison of traditional business models with e-Business models. Web application development using current web development tools requires programming skills. Prereq: 351 or equivalent.

To

542 Application Security and Controls (3) Introduces students to data security, systems controls, and privacy issues regarding Internet applications. Prereq: 541 or consent of instructor.

EFFECTIVE: FALL 2004**SUPPORTING INFORMATION:**

- a. Rationale: To update course content. Changing the prerequisite affords flexibility to evaluate the preparation of students to take the course.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None.

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

From

549 Systems Analysis and Design (3) Methodology used in analyzing, designing, and implementing information systems. This entails creating new systems, improving existing systems, streamlining business process, reducing costs with technology, and managing organizational change. Students use programming logic, interface design, and system integration techniques. Prereq: 541.

To

549 Enterprise Planning, Security and Controls (3) Examines the use of enterprise information systems to achieve strategic and operational advantage, to support managerial decision-making, and to achieve operational control. Prereq: 541 or consent of instructor.

EFFECTIVE: FALL 2004**SUPPORTING INFORMATION:**

- a. Rationale: To update course content. Changing the prerequisite affords flexibility to evaluate the preparation of students to take the course.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None.

BUSINESS ADMINISTRATION**Business Administration (205)**

REVISE PRIMARY COURSE TO DROP CROSS-LISTING

From

506 Enterprise Process Redesign (3) Enterprise Resource Planning (ERP) software as primary tool for redesigning business processes. Management methods required to facilitate redesign. Change management, consensus management, project management, and implementation methodologies. Configuration of ERP module and business-to-business e-commerce tools. (Same as Information Management 501.)

To

506 Enterprise Process Redesign (3) Enterprise Resource Planning (ERP) software as primary tool for redesigning business processes. Management methods required to facilitate redesign. Change management, consensus management, project management, and implementation methodologies. Configuration of ERP module and business-to-business e-commerce tools.

EFFECTIVE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: This course no longer requires a cross-listing with IM 501 because the Information Management concentration previously offered by the MBA program is no longer offered and the course is being dropped in this memo.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None.

DROP

515 MBA Capstone (1)

EFFECTIVE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: BA 514 will replace this course and become the capstone course.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None. This course will be replaced by a one-hour course.

REVISE CREDIT HOURS

514 Integrated Business Simulation (1)

(Formerly: 3)

EFFECTIVE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: The integrated business simulation will become the capstone experience for the MBA program as it already is for the SEMBA and PEMBA programs.
- b. Course format and location: Course is taught in a one-week format on campus.
- c. Impact on other academic units: none
- d. Financial impact: Dropping the former capstone course and replacing it with this revised course serves to reduce the overall length of the MBA program from 47 hours to 44 hours which frees resources.

REVISE MBA PROGRAM REQUIREMENTS

On page 62 of the 2003-2004 *Graduate Catalog*, in the left column revise the description of **THE MBA PROGRAM** and in the middle column revise the description of the **MBA Core** to (1) reduce the common core in the MBA program from 32 hours to 29 hours; (2) delete the 3 hour distance course taken during the internship (Summer); and (3) reflect the Logistics and Transportation concentration change to Logistics.

To

THE MBA PROGRAM

The full-time MBA program is designed for students with undergraduate degrees in a wide variety of fields, including the social and natural sciences, the humanities, and professional fields such as engineering, business, agriculture, and architecture. In addition, most students in this program should have two or more years of work experience beyond their undergraduate degree(s). The MBA program is a 17-month program with students beginning in late July of each year and graduating in December of the following year. During the summer between the second and third semesters, students must complete an internship with a company using those skills acquired during the first year of the MBA program.

The MBA program consists of a common core (29 hours) and a selection of concentration and elective courses (15 hours). The first-year core develops a general management foundation upon which specialization is developed in the concentration area.

The objective of the 17-month program is to develop leaders able to enhance the success of their organizations. Specific emphasis is placed upon competency in the area of integrated value chain management. This managerial perspective acknowledges that an organization's success is strongly related to its ability to function effectively and efficiently within a larger network of allied businesses. Managers must understand how to integrate business functions within their organizations, as well as across the other organizations within their value chain. Integrated value chain management rests upon a foundation including: supply chain management, information management, resource management, and customer relationship management. In addition, students will pursue

concentrations and careers in a variety of areas, including finance, logistics, marketing, and operations management.

MBA Core

The MBA core (29 hours total) consists of: a 3-hour foundations course taken during the three weeks prior to the beginning of fall semester, a 15-hour core course and a 1-hour career development course taken in the first semester (Fall 1), a 9-hour core course taken in the second semester (Spring 1), and a 1-hour capstone in the third semester (Fall 2). The topics introduced within these courses follow three major themes. The first theme covers "what every manager needs to know," and includes such functional topics as finance, strategy, decision tools, environmental analysis, and leadership skills development. The second theme focuses on functions involved in the flows of product, information, and finances within an integrated value chain, to include, but not limited to, operations management, logistics management, demand management, customer relationship management, supplier management and resource management. The third theme involves integrating the content of the other two themes using information technology. Throughout all three themes, significant emphasis is placed on learning the topics in an integrated fashion. Students will understand how various business functions are integrated within an organization, as well as how integration should occur across organizations within the context of a value chain.

Students in the first-year core undertake active learning within a team-based environment. Many core requirements are experiential exercises in which self-discovery within a team setting is an important element of the learning process. Individualized support is provided for developing both written and oral communication skills.

EFFECTIVE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: The integrated business simulation (BA 514 – the three-hour distance course taken during the internship) will become the capstone experience for the MBA program as it already is for the SEMBA and PEMBA programs.
- b. Course format and location: Course is taught in a one-week format on campus.
- c. Impact on other academic units: none
- d. Financial impact: Dropping the former capstone course and replacing it with this revised course serves to reduce the overall length of the MBA program from 47 hours to 44 hours which frees resources.

REVISE MBA CONCENTRATION FROM LOGISTICS AND TRANSPORTATION TO LOGISTICS

On page 62 of the 2003-2004 *Graduate Catalog*, in the right column, revise the description of the **Concentration and Electives** to reflect the change in Logistics and Transportation to Logistics.

To

Concentrations and Electives

...For specific courses required in concentration areas, see the appropriate field of instruction.

Finance
Logistics
 Marketing
 Operations Management

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: Renaming the concentration to Logistics reflects the evolution of logistics as a discipline wherein transportation is a component of the logistics field.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

ADD DUAL MS-MBA – NUCLEAR ENGINEERING

On page 64 of the 2003-2004 *Graduate Catalog*, in the middle column revise the description of the **Dual M.S.-MBA Program** to add a program in nuclear engineering.

To

DUAL M.S.-MBA PROGRAM

The College of Business Administration and the College of Engineering offer an integrated program leading to the conferral of the Master of Business Administration degree with a major in Business

Administration (concentration in operations management) and the Master of Science degree with a major in Engineering Science (concentration in product development and manufacturing), Industrial Engineering (concentration in manufacturing systems engineering or product development and manufacturing), Mechanical Engineering (concentration in product development and manufacturing), or Nuclear Engineering (concentration in product development and manufacturing).

The Engineering Science program is intended to provide other engineering majors an opportunity to participate in this program with a flexible coursework plan based on their undergraduate degree.

The Industrial Engineering program is also open to students with undergraduate engineering majors other than industrial engineering.

The establishment of the dual program addresses the critical need for personnel trained in both engineering and management who can integrate an increasingly complex body of knowledge for rapid introduction of new products to the marketplace. The objective of the dual degree program is to prepare graduates to take a leading management role in companies that must react quickly to a dynamic market where forces of competition require rapid changes in design and manufacturing and a short product development cycle.

Admission Requirements

Applications are accepted for fall semester only. Applicants for the M.S.-MBA program must make separate application to, and be competitively and independently accepted by, Graduate Admissions for the Master of Business Administration degree program and the Master of Science degree program with a major in Engineering Science, Industrial Engineering, Mechanical Engineering, or Nuclear Engineering, and by the Dual Program Committee.

Students will initially apply for the MBA program, indicating on their application the intent to pursue the dual M.S.-MBA program and the appropriate engineering major (refer to the MBA program for separate instructions). Students accepted for both the MBA and one of the engineering degree 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 MBA 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.

Curriculum

All engineering students enrolled in the dual program must complete common coursework designed to provide them with an integrated, multidisciplinary teamwork experience. The MBA curriculum consists of 31 hours of common coursework in the College of Business Administration and 15 hours of common coursework in the College of Engineering. Engineering common coursework includes a culminating 3-hour integrated project course requiring a comprehensive report, and a final examination as required by the Dual Program Committee, to be taken during the first session of summer following the second year.

During the second year dual degree candidates will take courses in their engineering major. The coursework for each option is designed to provide students with a concentration in their major and advanced skills to accomplish their teamwork assignments.

Dual degree candidates enrolled in Engineering Science option are required to take 18 hours of graduate level engineering courses during the second year of the program. This option requires a coursework plan, approved by the Dual Program Committee, including a concentration such that the student can accomplish his/her teamwork assignments.

Curriculum for Dual M.S.-MBA Degree

August—First Year

BA 511	MBA Core I	3
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Fall—First Year

BA 512	MBA Core II	15
IE/ME 504	Product Development Process	1

Spring

BA 513	MBA Core III	9
IE/ME 506	Product Selection and Evaluation	2
IE/ME 508	Integrated Product, Process, and Manufacturing System Design	3

Summer

—	Internship	—
IE/ME 509	Multidisciplinary Project	1

Fall—Second Year

BA 514	Integrated Business Simulation	1
IE 511*	Business Planning and Commercialization	3
IE/ME 509	Multidisciplinary Project	1
—	Engineering major	9-12
Spring		
—	MBA “hub” course elective	3
IE/ME 509	Multidisciplinary Project	1
—	Engineering major	6-9
Summer (first session)		
IE/ME 594	Culminating Integrated Project Report	3
	TOTAL	61-67

*Students in manufacturing systems engineering concentration may substitute other selected IE courses for these courses.

For additional requirements for Master of Science degree with majors in Engineering Science, Industrial Engineering, Mechanical Engineering, or Nuclear Engineering refer to program descriptions for those majors.

The dual degree candidate must satisfy the curriculum and graduation requirements of the engineering major being pursued 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 M.S. and the MBA degrees will be awarded upon successful completion of the requirements of the dual program.

Approval Dual Credit

A maximum of 15 hours of the common program courses completed in the College of Engineering may be counted toward the MBA degree program.

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- Rationale: This adds the Nuclear Engineering Major to the dual degree program that already includes Industrial Engineering, Mechanical Engineering, and Engineering Sciences. In addition, curriculum changes reflect the change in the MBA program to reduce BA 514 from a three-hour summer course to a one-hour fall course.
- Course format and location: BA 514 will change from being taught over the web in the summer to an on-campus one-week offering.
- Impact on other academic units: None expected.
- Financial impact: None

REVISE PhD – BUSINESS ADMINISTRATION: CHANGE LOGISTICS AND TRANSPORTATION CONCENTRATION TO LOGISTICS

On page 65 of the 2003-2004 *Graduate Catalog*, under **THE DOCTORAL PROGRAM, Program of Study** heading (middle column) and under the **Degree Requirements** heading (third column), revise the description of the seven concentrations to reflect the change in Logistics and Transportation to Logistics and add the Human Resource Development concentration to the description (under **Degree Requirements** only).

To

Program of Study

...There are seven concentrations offered in the Ph.D. program:

Accounting
Finance
Human Resource Development
Logistics
Management (Operations Management and Strategic Management)
Marketing
Statistics

REVISE CATALOG TEXT

To

Degree Requirements

...4. Concentrations:... Available concentrations are: accounting, finance, **human resource development, logistics**, management (operations management and strategic management), marketing, and statistics.

EFFECTIVE DATE: FALL 2004**SUPPORTING INFORMATION**

- a. Rationale: Renaming the concentration to Logistics reflects the evolution of logistics as a discipline wherein transportation is a component of the logistics field. The Human Resource Development concentration was inadvertently left off of this list during previous curriculum revisions.
- b. Course format and location: n/a
- c. Impact on other academic units: None.
- d. Financial impact: None

DEPARTMENT OF HUMAN RESOURCE DEVELOPMENT

REVISE ADMISSION REQUIREMENTS FOR MASTER'S AND PhD PROGRAMS

On page 118 (center column), under **THE MASTER'S PROGRAM** heading **Admission Requirements**, please make the following changes: 1) revise wording to allow students to submit either Graduate Management Admission Test (GMAT) scores or GRE scores since the College of Business Administration permits either and 2) add a sentence stating a minimum GMAT score.

To

Admission Requirements

Applicants for admission should request information and application forms from both the Office of Graduate and International Human Resource Development Program (218 Student Services Building) and the Human Resource Development Program (408 Stokely Management Center, The University of Tennessee, Knoxville, Tennessee 37996).

...Applicants must hold a bachelor's degree from an accredited institution and present evidence of ability to do graduate work, including a GPA of 3.0 on a 4.0 scale for the last two years of undergraduate work. Any student below this level of academic quality must justify admission via other exceptional credentials. If the applicant has prior work experience in human resource development, a reference letter should also be provided by the work supervisor. Applicants without an undergraduate degree in an area related to human resource development, previous HR employment experience, or a statistical background may be required to complete additional course work as part of their program. Recent Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) scores are required of all applicants. Minimum GRE composite scores (quantitative and verbal) of 1000 are required. The minimum GMAT score required is 500. Deadline: New students are admitted in fall semester only. Applications must be received by March 1.

EFFECTIVE DATE: FALL 2004**SUPPORTING INFORMATION:**

- a. Rationale: Allowing students to submit either Graduate Management Admission Test (GMAT) scores or GRE scores makes HRD programs consistent with other programs in the College of Business Administration.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None

On page 118 (right column), under **THE PH.D. PROGRAM** heading **Admission Requirements**, please make the following changes: 1) revise wording to allow students to submit either Graduate Management Admission Test (GMAT) scores or GRE scores since the College of Business Administration permits either and 2) add a sentence stating a minimum GMAT score.

To

Admission Requirements

Applicants for admission should request information and application forms from both the Office of Graduate Admissions, 218 Student Services Building, and the Human Resource Development

Program, 408 Stokely Management Center, The University of Tennessee, Knoxville, Tennessee, 37996.

Applicants are to submit an application for admission to Graduate Admissions. Additionally, applicants are to submit an application, three letters of reference from persons familiar with their potential for success in doctoral work, a statement describing personal career objectives, and a sample of written work directly to the Human Resource Development Program. Deadline: New students are admitted in fall semester only. Applications must be received by the Graduate Admissions Office and Human Resource Development Program by March 1.

Applicants must hold a master's degree from an accredited institution and present evidence of ability to do Ph.D. work, including having maintained a graduate GPA of 3.3 on a 4.0 scale or better. Applicants without a graduate degree in an area related to human resource development may be required to complete additional course work as part of their program. If the applicant has prior work experience in human resource development, human resource management, or a related occupational area, a reference letter should be provided by the work supervisor. Recent Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) scores are required of all applicants. Minimum GRE composite scores (quantitative and verbal) of 1100 are required. The minimum GMAT score required is 550. 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 600 is required for admission consideration.

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: Allowing students to submit either Graduate Management Admission Test (GMAT) scores or GRE scores makes HRD programs consistent with other programs in the College of Business Administration.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None

REVISE REQUIREMENTS FOR THE PhD – HUMAN RESOURCE DEVELOPMENT CONCENTRATION

On page 119 (left column), under **THE PH.D. PROGRAM** heading **Degree Requirements**, please add a sentence specifying that course equivalencies and substitutions be approved by the student's doctoral committee.

To

Degree Requirements

The Doctor of Philosophy degree is 60 hours with a major in Business Administration and a concentration in Human Resource Development for graduate students who seek careers in higher education or as managers/administrators of HRD. The curriculum is designed to enable students to achieve professional objectives, develop needed competencies, and gain desirable experiences and understanding of human resource development. Students not possessing a master's degree before acceptance to the program may be required to complete additional course work before enrolling into any courses associated with the doctoral program. Students must be in residence full time for one year; must maintain an overall 3.0 grade-point average with no more than one grade below B in the HRD Courses, Research Core, and Business Core; students who did not complete a thesis in their Master's program must complete a predoctoral research project prior to beginning dissertation work; and must pass a comprehensive examination; and must pass a final oral examination on their dissertation research. Detailed information regarding the Ph.D. concentration program of study may be obtained from the Program Liaison. Course equivalencies and substitutions must be approved by the student's doctoral committee.

Note: For latest update, check the homepage of the Human Resource Development Program through the College of Business Administration's web site.

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION

- a. Rationale: Omitting this statement was an oversight when HRD programs were brought into the College of Business Administration.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None

On page 119 (left column), under **THE PH.D. PROGRAM** headings **Course Requirements** and **Research Core**, revise the Advanced Statistics requirement to include a course equivalent to Statistics 579 or I/O Psychology 627.

To

Course Requirements:	Hours
HRD Core	6
HRD 602 (Proseminar I in Human Resource Development-Fall 1st Year)	
HRD 603 (Proseminar II in Human Resource Development)-Spring 1st Year)	
HRD Seminars	9
Students consult with doctoral advisor and committee to select 3 courses	
HRD 605 (Seminar in Organization Theory and Environmental Context)	
HRD 606 (Research in Human Resource Development)	
HRD 607 (Seminar in Communication Processes)	
HRD 608 (Seminar in Work/Life Interface Issues)	
HRD 609 (Seminar in Technological Frameworks for Human Resource Development)	
HRD 613 (Seminar in Selected Topics)	
Research Core	12
Statistical Principles (Statistics 531-532 or Statistics 537-538 or equivalent)	
Advanced Statistics (Statistics 579 or I/O Psychology 627 or equivalent)	
Seminar in Research Methods (Marketing612)	
Business Core	9
Seminar in Theoretical Foundations(Marketing 611)	
International Management (Management571)	
Proseminar in I/O Psychology (Industrial/ Organizational Psychology 568)	
Dissertation	24
Total	60

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- Rationale: This was an oversight in original catalog conversion.
- Course format and location: n/a
- Impact on other academic units: None expected.
- Financial impact: None.

DEPARTMENT OF MANAGEMENT

Management (625)

REVISE CROSS-LISTED COURSE

From

540 Logistics and Operations Management (3) Analysis of methods and models for understanding supply chain flows and processes. Introduction to management strategies and techniques applicable to design of systems in logistics and operations processes. Prereq: Business Administration 511, 512, and 513 or consent of instructor. (Same as Logistics and Transportation 510.)

To

540 Logistics and Operations Management (3) Analysis of methods and models for understanding supply chain flows and processes. Introduction to management strategies and techniques applicable to design of systems in logistics and operations processes. Prereq: Business Administration 511, 512, and 513 or consent of instructor. (Same as **Logistics 510.**)

Primary course is Management 540.

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- Rationale: The change in the cross-listing reflects the department and field of discipline name and Transportation to Logistics.
- Course format and location: n/a
- Impact on other academic units: None expected.
- Financial impact: None.

DEPARTMENT OF MARKETING AND LOGISTICS

CHANGE CATALOG TEXT TO REFLECT DEPARTMENTAL NAME CHANGE

On page 140 of the 2003-2004 *Graduate Catalog*, middle column, revise the field of instruction (department) for Marketing, Logistics, and Transportation, as follows:

From
Marketing, Logistics, and Transportation

To
Marketing and Logistics

REVISE ACADEMIC DISCIPLINE FROM LOGISTICS AND TRANSPORTATION TO: **LOGISTICS (LOG)**

On page 140 of the 2003-2004 *Graduate Catalog*, left column, revise academic discipline subheading for Logistics and Transportation, as follows:

From
Logistics and Transportation

To
Logistics

CHANGE CATALOG TEXT

On page 138 of the 2003-2004 *Graduate Catalog*, middle column, revise the field of instruction (department) reference for Logistics, as follows:

From
Logistics (See Marketing, Logistics and Transportation)

To
Logistics (See Marketing and Logistics)

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- a. Rationale: The change in the reference reflects the department name change of Marketing, Logistics and Logistics.
- b. Course format and location: n/a
- b. Impact on other academic units: None expected.
- c. Financial impact: None.

Logistics and Transportation (624)

DROP

All courses under the Logistics and Transportation academic discipline (page 140 of the 2003-2004 *Graduate Catalog*).

EFFECTIVE DATE: FALL 2004

ADD NEW ACADEMIC DISCIPLINE AND COURSES

Logistics (626) (LOG)

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

510 Logistics and Operations Management (3) (Same as Management 540.)

546 Logistics and Supply Chain Strategy (3) Development of strategy for logistics systems and supply chain processes. Executive-level integration of logistics strategy with marketing, production, finance, and other decision areas. Prereq: 510 and Business Administration 511, 512, 513, and 514.

547 Global Logistics and Supply Chain Management (3) Logistics strategy in global firm: materials management, international sourcing and procurement, global production and distribution, import/export activity. Design and operation of supply chains in global environment. Prereq: 510 and Business Administration 511, 512, 513, and 514.

593 Independent Study (3-6) Directed research and study. Prereq: Consent of instructor. May be repeated.

599 Special Topics in Logistics (3-6) Seminar designed to study specific current problem areas in logistics. Topic announced prior to offering. Prereq: Consent of instructor. May be repeated.

600 Doctoral Research and Dissertation (3-15) P/NP only.

ADD AND CROSS-LIST

611 Theoretical Foundations (3) (Same as Marketing 611.)

Primary course is Marketing 611.

612 Research Methods I (3) (Same as Marketing 612.)

Primary course is Marketing 612.

ADD

613 Supply Chain Management Thought (3) Survey of concepts and research methods of interorganizational systems. Supply chains will be studied from multiple perspectives including the following: institutional design and structure, transaction cost economics, operations and logistics cost economics, exchange behaviors and strategies, supply chain relationship types, and evaluation of supply chain performance.

614 Evolution of Logistics Thought (3) Survey of concepts, frameworks, theory, research issues, and empirical research in content areas related to logistics and supply chain management. Conceptual foundations, issue controversies, and future directions.

615 Logistics Models (3) Analysis of contemporary models and methodologies in logistics research, topical coverage at discretion of instructor.

693 Independent Study (1-6) Directed research on subject of mutual interest to student and faculty. May be repeated. Prereq: Consent of instructor.

EFFECTIVE DATE FOR ALL LOGISTICS COURSES: FALL 2004

EQUIVALENCY TABLE

Current Logistics And Transportation Graduate Courses	Logistics Courses – Fall 2004
LT 502 Registration for Use of Facilities (1-15)	LOG 502 Registration for Use of Facilities (1-15)
LT 510 Logistics and Operations Management (3)	LOG 510 Logistics and Operations Management (3)
LT 546 Logistics and Supply Chain Strategy (3)	LOG 546 Logistics and Supply Chain Strategy (3)
LT 547 Global Logistics and Supply Chain Management (3)	LOG 547 Global Logistics and Supply Chain Management (3)
LT 593 Independent Study (3-6)	LOG 593 Independent Study (3-6)
LT 599 Special Topics in Logistics and Transportation (3-6)	LOG 599 Special Topics in Logistics (3-6)
LT 600 Doctoral Research and Dissertation (3-15)	LOG 600 Doctoral Research and Dissertation (3-15)
LT 611 Theoretical Foundations (3)* Cross-listed with Marketing 611. Primary course: Marketing 611.	LOG 611 Theoretical Foundations (3)* Cross-listed with Marketing 611. Primary course: Marketing 611.
LT 612 Research Methods I (3)* Cross-listed with Marketing 612. Primary course: Marketing 612.	LOG 612 Research Methods I (3)* Cross-listed with Marketing 612. Primary course: Marketing 612.
LT 613 Supply Chain Management Thought (3)	LOG 613 Supply Chain Management Thought (3)
LT 614 Evolution of Logistics Thought (3)	LOG 614 Evolution of Logistics Thought (3)
LT 615 Logistics and Transportation Models (3)	LOG 615 Logistics Models (3)
LT 693 Independent Study (1-6)	LOG 693 Independent Study (1-6)

*Cross-listed courses

REVISE CATALOG TEXT TO REFLECT THE CHANGE OF THE NAME OF THE CONCENTRATION TO LOGISTICS

On page 140 of the 2003-2004 *Graduate Catalog*, middle and right columns, revise the **BUSINESS ADMINISTRATION CONCENTRATIONS** listings, as follows:

To

MBA Concentration: Logistics, Marketing. Minimum course requirements for **logistics—Logistics** 510, 546, and 547. For marketing—Marketing 520 and 530.

Ph.D. Concentration: Logistics, Marketing. Minimum course requirements for **logistics—Logistics** 611, 612, 613, 614, and 615. For marketing—Marketing 611, 612, 613, 614, 615, and 616.

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

a. Rationale: The change in the concentration name reflects the evolution of logistics as a discipline wherein transportation is a component of the logistics field.

Marketing (632)

REVISE CROSS-LISTING OF PRIMARY COURSE

From

611 Theoretical Foundations (3) Theoretical foundations and frameworks common to business research. Historical and philosophy of science perspectives. (Same as Logistics and Transportation 611.)

To

611 Theoretical Foundations (3) Theoretical foundations and frameworks common to business research. Historical and philosophy of science perspectives. (Same as Logistics 611.)

From

612 Research Methods I (3) Research process: philosophical foundations, problem formulation, grounded theory, qualitative methods and analysis, measurement, sources of error, experimental design and analysis, and survey design and analysis. (Same as Logistics and Transportation 612.)

To

612 Research Methods I (3) Research process: philosophical foundations, problem formulation, grounded theory, qualitative methods and analysis, measurement, sources of error, experimental design and analysis, and survey design and analysis. (Same as Logistics 612.)

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION:

- Rationale: The change in the cross-listing references simply reflects the change of the Logistics and Transportation discipline to Logistics.
- Course format and location: N/A

- c. Impact on other academic units: none
- d. Financial impact: None

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

APPROVE TEACHING TWO EXISTING COURSES AS ELECTRONICALLY-MEDIATED FORMAT COURSES

532 Survey of Statistical Methods II (3)

- Total Number of Weeks: 15
- Total Expected Student Time Commitment : 135 hrs., i.e. 9 hrs/wk X15wks.
- Course Designation: Tennessee-Online
- Student Site Requirements: Two times per week online access via the Internet using Centra distance learning software.
- What is the nature and quantity of structured student/instructor interaction?
Three hours of synchronous lectures each week via the Internet using Centra distance learning software. Office hours using the Centra software twice a week. Contact using email and telephone calls.
- What is the nature and quantity of structured student/student interaction?
Breakout rooms are available within the Centra distance learning software, several homework assignments are done by teams that are randomly chosen via Centra, email contact, telephone contact, and homework and project study groups via email.

EFFECTIVE DATE: SPRING 2004

567 Analysis of Lifetime Data (3)

- Total Number of Weeks: 15
- Total Expected Student Time Commitment: 135 hours, that is, 9 hours per week
- Course Designation: Tennessee-Online
- Student Site Requirements: Two times a week online access via the Internet using Centra distance learning software.
- What is the nature and quantity of structured student/instructor interaction?
Three hours lectures each week via the Internet using Centra distance learning software. Office hours using the Centra software twice a week. Contact using email and telephone calls.
- What is the nature and quantity of structured student/student interaction?
Homework room to meet using Centra distance learning software. Email contact. Telephone contact. Students are assigned an online buddy.

EFFECTIVE DATE: FALL 2004

Management Science³ (627)

MOVE MANAGEMENT SCIENCE ACADEMIC DISCIPLINE TO THE DEPARTMENT OF STATISTICS, OPERATIONS AND MANAGEMENT SCIENCE

Management Science catalog text (Master's Program, Doctoral Program, Academic Standards, Prerequisites for Management Science Courses, Graduate Courses on pages 139-140 of the 2003-2004 Graduate Catalog should be moved to the Statistics, Operations and Management Science Department (Field of Instruction).

REVISE TO DROP CROSS-LISTING FROM PRIMARY COURSE

531 Mathematical Programming (3)

³ Management Science changes are being covered under the Statistics, Operations and Management Science field of instruction (department) because, as indicated on page 4 of this memo, the Management Science academic discipline heading will hold a reference to the Statistics field of discipline and the actual information should now appear after the "Statistics" section on page 190 of the 2003-2004 *Graduate Catalog*.

(Formerly: Same as Industrial Engineering 523.)

551 Leveraging Information Through Descriptive and Prescriptive Modeling (3)

(Formerly: Same as Information Management 522.)

EFFECTIVE DATE: FALL 2004

SUPPORTING INFORMATION

- a. Rationale: For 531 - Industrial Engineering has developed a new course and no longer needs the cross-listing. For 551 - This course no longer requires a cross-listing with IM 522 because the Information Management concentration previously offered by the MBA program is no longer offered and IM 522 is being dropped in this memo.
- b. Course format and location: n/a
- c. Impact on other academic units: None expected.
- d. Financial impact: None.

MEMORANDUM

TO: Graduate Council

FROM: Faye D. Julian, Interim Dean

DATE: December 12, 2003

SUBJECT: Graduate Curricular Changes – College of Communication and Information

- (1) College of Communication and Information**
 - A. Drop all graduate Communication (259) courses.
 - B. Add new academic discipline Communication and Information (CCI).
 - C. Add courses to Communication and Information (CCI). One new course: 501. Other courses were formerly Speech Communication. [See Equivalency Table at the end of the Communication and Information Section.]
 - D. Revise name of major (informational item).
 - E. Revise program description and degree requirements for M.S. Communication.
- (2) School of Advertising and Public Relations**
 - A. Add new courses - Advertising 500, 502, 590.
 - B. Revise title, description, and prerequisite Advertising 530.
 - C. Revise title Advertising 540.
 - D. Add new courses – Public Relations 490, 500, 502, 540, 550, 561, 590.
 - E. Drop Public Relations 416, 520, 530, 560, 571.
 - F. Revise cross-listing Public Relations 412 with Journalism and Electronic Media 412 and Public Relations 525 with Journalism and Electronic Media 525.
 - G. Revise title, description, and prerequisite Public Relations 530.
- (3) School of Communication Studies**
 - A. Drop all graduate Speech Communication courses and add them under the Communication Studies academic discipline. New courses are: 500, 502, 520. [See Equivalency Table at the end of the Communication Studies section.]
 - B. Revise the Speech Communications Concentration (M.S. and Ph.D.) to Communication Studies.
- (4) School of Information Sciences**
 - A. Revise cross-listing of one course – Information Sciences 450.
- (5) School of Journalism and Electronic Media**
 - A. Drop all current Journalism (594) and Electronic Media (315) courses.
 - B. Add new academic discipline Journalism and Electronic Media (JEM). Add former Journalism courses, Electronic Media courses, and 8 former Communication courses. The two new courses are: 500, 502. [See Equivalency Table at the end of the Communication section and the Journalism and Electronic Media section.]

COLLEGE OF COMMUNICATION AND INFORMATION

DROP ALL CURRENT COMMUNICATION (259) GRADUATE COURSES

ADD NEW ACADEMIC DISCIPLINE: **COMMUNICATION AND INFORMATION (CCI)**

Communication and Information (248) (CCI)

ADD (NEW COURSE)

501 Orientation to Graduate Study (1) Overview of the communication and information discipline. Orientation to resources needed for successful graduate study. Prereq: admission to program. P/NP only.

Effective: Fall 2004

Course Information

Content: Introduction to communication and information disciplines as academic fields of study; Introduction to the communication and information professions; Orientation to graduate research resources.

Performance Measurement: Grading will be pass/no pass. To pass, students must attend classes regularly and show evidence of completing all assigned external tasks. The instructor may also assign one or two simple exercises that allow students to synthesize what they have learned.

ADD

540 Communication Theory (3) Overview of theory-building process and theories in communication. Prereq: Consent of instructor or admission to the program.

600 Doctoral Research and Dissertation (3-15) P/NP only.

612 Fundamentals of Communication Research (3) Universal research process from defining ideas and problems to reporting results. Causal inference and relative strengths of various research designs. Fundamentals and specific applications of most common data-gathering and measurement techniques in communications research: experimental, survey, content analysis, historical and qualitative. Prereq: Consent of instructor or admission to program.

620 Seminar in Communication and Information Education (3) Role and scope of mass communication teaching unit, historical perspectives of curricular trends. Teaching methods and instructional objectives; classroom testing and measurement; design of professional curricula, research and extension; program evaluation; grants and contracts in research. Prereq: Consent of instructor or admission to program.

622 Quantitative Research (3) Techniques for evaluation of research design and measurement. Survey, content analysis, and experimental techniques. Assessment of reliability and validity. Data analysis, hypotheses testing, and inference strategies. Prereq: 612.

632 Mass Communication History and & Historiography (3) Origins and development of mass media in America. Philosophies of history. Historical sources and their verifications. Synthesis and interpretation of data. Prereq: 612 or consent of instructor.

640 Communication and Information Theory I (3) Selected research hypotheses, and theories in literature of mass communication theory. Prereq: Consent of instructor or admission to program.

641 Communication and Information Theory II (3) Selected topics in theory. Critical evaluation of extant theory, derivation of hypotheses, and advanced theory construction. Prereq: 640.

642 Qualitative Research (3) Theory and application of qualitative research methods to social science and communications research. Theoretical considerations underlying symbolic interactionism as translated into research strategies of participant observation, life history, interviewing, archival analysis, and case studies. Prereq: 612 or consent of instructor.

652 Mass Communication Law and Legal Research (3) Legal restrictions under which mass media operate. Finding, interpreting and analyzing sources of legal information. Prereq: 612 or consent of instructor.

Effective Date for Communication and Information Courses: Fall 2004

EQUIVALENCY TABLE

CURRENT COMMUNICATION (259) GRADUATE COURSES	EQUIVALENT COURSES FALL 2004
COM 400 Mass Communication Law and Ethics (3)* Cross-listed with Legal Studies 400. Primary course: COM 400	JEM 400 Mass Communication Law and Ethics (3)* Cross-listed with Legal Studies 400. Primary course: JEM 400
COM 450 On-Line Electronic Publishing (3) UG Credit only.	JEM 488 Web Publishing (3)
COM 500 Thesis (1-15) TO BE DROPPED FALL 2004	----
----	CCI 501 Orientation to Graduate Study (1) NEW COURSE
COM 502 Registration for Use of Facilities (1-15) TO BE DROPPED FALL 2004	----
COM 512 Mass Media Research Methods (3)	JEM 512 Mass Media Research Methods (3)
COM 521 Tutorial in Communication Teaching (1) TO BE DROPPED FALL 2004	----
COM 540 Communication Theory (3)	CCI 540 Communication Theory (3)
COM 550 Seminar in Media Economics and New Technology (3)	JEM 555 Seminar in Media Economics and New Technology (3)
COM 551 Seminar in Science, Society, and the Mass Media (3)	JEM 551 Seminar in Science, Society, and the Mass Media (3)
COM 552 Seminar in Health Communication (3)	JEM 552 Seminar in Health Communication (3)
COM 553 Seminar in Risk Communication (3)	JEM 553 Seminar in Risk Communication (3)
COM 560 Seminar in Communication Management (3) TO BE DROPPED FALL 2004	----
COM 590 Project (3)	JEM 590 Project (3)
COM 593 Seminar in Mass Communication Issues (3) TO BE DROPPED FALL 2004	----
COM 600 Doctoral Research and Dissertation (3-15)	CCI 600 Doctoral Research and Dissertation (3-15)
COM 612 Fundamentals of Communication Research (3)	CCI 612 Fundamentals of Communication Research (3)
COM 620 Seminar in Mass Communication Education (3)	CCI 620 Seminar in Communication and Information Education (3)
COM 622 Quantitative Research (3)	CCI 622 Quantitative Research (3)
COM 632 Mass Communication History & Historiography (3)	CCI 632 Mass Communication History & Historiography (3)
COM 640 Mass Communication Theory I (3)	CCI 640 Communication and Information Theory I (3)

CURRENT COMMUNICATION (259) GRADUATE COURSES	EQUIVALENT COURSES FALL 2004
COM 642 Qualitative Research (3)	CCI 642 Qualitative Research (3)
COM 652 Mass Communication Law and Legal Research (3)	CCI 652 Mass Communication Law and Legal Research (3)

INFORMATIONAL ITEM – Change of name of the Ph.D. major from Communication to: **Communication and Information.**

From

CommunicationM.S., Ph.D.

To

**CommunicationM.S.
Communication and InformationPh.D.**

Effective: Spring 2004

SUPPORT DOCUMENTATION:

>>> "Robert Levy" <rlevy@utk.edu> 12/2/2003 12:36:05 PM >>>

With the new configuration of the College of Communication and Information, we need to change the name of the college-wide PhD program. Heretofore, it has been called "PhD with a major in Communications." Now it should be called "PhD with a major in Communication and Information." There are no specific curricular changes beyond those of an ongoing nature. The College will retain its separate master's degrees (MS in Information Sciences and the MS in Communication).

Please share this with everyone who needs to know.

Thanks,
Bob

M.S. – COMMUNICATION - REVISE PROGRAM DESCRIPTION AND DEGREE REQUIREMENTS

On page 76 of the 2003-2004 *Graduate Catalog*, under the heading "The Master's Program":

To

The Master's Program

The Master of Science degree in Communication 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. Program concentrations include advertising, communication studies, converging media, electronic media, journalism, public relations, and science communication. Both thesis and non-thesis options are available. See catalog listings for the School of Advertising and Public Relations (page ____), School of Communication Studies (page ____), and the School of Journalism and Electronic Media (page ____) for information about these concentrations and the courses offered.

On page 76 of the 2003-2004 *Graduate Catalog*, under the heading "Degree Requirements":

To

Degree Requirements

The M.S. 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. Orientation attendance is also required.

1. Seven hours of core courses - CCI 501 (Orientation, 1 hr.), CCI 540 (Theory, 3 hrs.), and one of the following research methods courses (ADV 530, CS 505, IS 540, JEM 512, PR 530), to be taken during the first two semesters of the student's program, except with the written approval of the director of graduate studies of the College.
2. Fifteen hours within a concentration. Primary concentrations include advertising, communication studies, converging media, electronic media, journalism, public relations, and science communication. Students may also construct their own coherent set of courses for a

concentration, with the approval of the director of graduate studies for the College. At least six hours of the concentration must be at the 500 level or above. An internship, if needed, may be included in the concentration hours.

3. Six hours for the thesis option, or nine hours for the non-thesis option, of approved electives.
4. 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.
5. Six hours of thesis work, or a three-hour project.

Additional hours may be required for those who do not have academic prerequisites, and an internship may be required for those who do not have professional experience in the field that they wish to study. A course in communication law is a prerequisite.

A student's internship experience requires approval by his/her advisor, on the basis of three hours of credit for the equivalent of 15 weeks of full-time professional experience. This credit is to be included in the hour requirements for the M.S. program.

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. The non-thesis option requires a written comprehensive examination and an oral defense of the project.

Effective: Fall 2004

SCHOOL OF ADVERTISING AND PUBLIC RELATIONS

Advertising (012)

ADD

500 Thesis (1-15) P/NP only.

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when the student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

590 Project (3) Capstone project under guidance of faculty. Application of principles from previous coursework. Satisfactory/No Credit grading only.

Effective: Fall 2004

REVISE TITLE, DESCRIPTION, PREREQUISITE

From

530 Advertising Research (3) Nature, scope, and applications of research function to advertising decisions. Market segmentation, copy appeals, media strategy. Prereq: Statistics 201 Introduction to Statistics or equivalent.

To

530 Advertising and Public Relations Research (3) Nature, scope, and application of research function to advertising and public relations decisions. Prereq: Statistics 531 or equivalent.

Effective: Fall 2004

REVISE TITLE

540 Advertising Decision Making (3)

(Formerly: Advertising Planning)

Effective: Fall 2004

Public Relations (841)

DROP CROSS-LISTED SECONDARY COURSE

560 Publishing on World Wide Web (3) (Same as Journalism 560.)

520 Political Communications (3) (Same as Journalism 520.)

Effective: Fall 2004

DROP

416 Issues in Public Relations (3) Topics vary. May be repeated. Maximum 6 hours.

530 Fund Raising and Proposal Writing (3) History, philosophy and practice of philanthropy in U.S. Sources of funds from foundations, corporations and public agencies. Research and preparation of fund-raising proposals.

571 Public Relations Management (3) Analysis and management of problems in communication between institutions and organizations and their publics. Measurement and evaluation of effectiveness of communication programs. Prereq: 470 or consent of instructor.

Effective: Fall 2004

ADD

490 Special Topics (3) Topics vary. May be repeated. Maximum 6 hours.

561 Fund Raising and Proposal Writing (3) History, philosophy and practice of philanthropy in U.S. Sources of funds from foundations, corporations and public agencies. Research and preparation of fund-raising proposals.

540 Public Relations Management (3) Theories of leadership and management and organizational structure and functions of public relations agencies and departments in public, private, and non-profit sectors. Analysis and management of problems in communication between organizations and their publics with emphasis on ethics and standards of the profession.

Effective: Fall 2004

RATIONALE: Course descriptions, titles, and number changes accommodate reorganization of Public Relations into the new School of Advertising and Public Relations.

EQUIVALENCY TABLE

Current Public Relations (PR) Graduate Course	Equivalent Public Relations (PR) Course - Fall 2004
416 Issues in Public Relations (3)	490 Special Topics (3)
530 Fund Raising and Proposal Writing (3)	561 Fund Raising and Proposal Writing (3)
571 Public Relations Management (3)	540 Public Relations Management (3)

ADD

500 Thesis (1-15) P/NP only.

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when the student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

550 Public Relations Strategies (3) Strategic communication planning to achieve overall goals of organizations. Emphasis on decision-making, the budgeting process, including cost-benefit analysis of tactics, and managerial execution of public relations plans. Measurement and evaluation of effectiveness of communication programs.

590 Project (3) Capstone project under guidance of faculty. Application of principles from previous coursework. Satisfactory/No Credit grading only.

Effective: Fall 2004

REVISE CROSS-LISTING

412 Opinion Writing (3) (Same as Journalism and Electronic Media 412.)

(Formerly: Same as Journalism 412.)

Primary course is Journalism and Electronic Media 412.

525 Public Opinion (3) (Same as Journalism and Electronic Media 525.)

(Formerly: Same as Journalism 525.)

Primary course is Journalism and Electronic Media 525.

Effective: Fall 2004

SCHOOL OF COMMUNICATION STUDIES

CHANGE THE SPEECH COMMUNICATION CONCENTRATION (M.S. AND Ph.D.) TO COMMUNICATIONS STUDIES:

From:

M.S. Communication – Speech Communication Concentration

Ph.D. Communication and Information – Speech Communication Concentration

To:

M.S. Communication – Communication Studies Concentration

Ph.D. Communication and Information – Communication Studies Concentration

Effective: Fall 2004

Speech Communication (943)

DROP ALL GRADUATE SPEECH COMMUNICATION COURSES AND ADD THEM UNDER THE COMMUNICATION STUDIES ACADEMIC DISCIPLINE.

Effective: Fall 2004

Communication Studies (250)

ADD

500 Thesis (1-15) P/NP only.

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

505 Human Communication Research Methods (3) Understanding of wide array of data collection and analysis procedures used in human communication research.

520 Survey of Interpersonal Communication (3) Identifies and addresses theory and research in human communication.

525 Survey of Interpersonal Health Communication (3) Identifies and addresses theories and research concerning how people communicate about health.

540 Survey of Organizational and Team Communication (3) Identifies and addresses theories and research in human interactions in organizations and teams.

560 Special Topics in Communication Studies (3) Contemporary Topics. Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

580 Survey of Public Communication (3) Identifies and addresses theories and research in public discourse.

590 Project (3) Capstone project under guidance of faculty. Application of principles from previous coursework. Satisfactory/No Credit grading only.

591 Foreign Study (1-15) Independent study outside U.S. Prior to departure student must have plan of study approved by department head and supervising faculty member. Credit given only upon fulfilling all requirements set by department. May be repeated. Maximum 15 hours.

592 Off-Campus Study/Internship (1-6) Independent study outside traditional classroom setting: community involvement and/or work experiences. Credit given only upon fulfilling all requirements set by department. May be repeated. Maximum 6 hours.

593 Independent Study (1-6) Independent study by individual under direction of faculty member. Must obtain approval of faculty member and department prior to study.

Effective Date for Communication Studies Courses: Fall 2004

RATIONALE: Accommodate change to School of Communication Studies.

EQUIVALENCY TABLE
Speech Communication Courses - Communication Studies Courses

Current Speech Communication Graduate Courses	Equivalent Communication Studies Graduate Courses Fall 2004
466 Rhetoric of the Woman's Rights Movement to 1930 (3)* TO BE DROPPED FOR GRADUATE CREDIT FALL 2004 Cross-listed with Women's Studies 466. Primary course: Speech Communication 466.	[466 AVAILABLE FOR UNDERGRADUATE CREDIT ONLY.]
476 Rhetoric of the Contemporary Feminist Movement (3)* TO BE DROPPED FOR GRADUATE CREDIT FALL 2004 Cross-listed with Women's Studies 475. Primary course: Speech Communication 476.	[476 AVAILABLE FOR UNDERGRADUATE CREDIT ONLY.]
---	500 Thesis NEW COURSE
---	502 Registration for Use of Facilities NEW COURSE
505 Research Methods	505 Human Communication Research Methods
510 Orientation to Teaching Assistantship TO BE DROPPED FALL 2004	----
-----	520 Survey of Interpersonal Communication NEW COURSE
525 Seminar in Interpersonal Health Communication	525 Survey of Interpersonal Health Communication
550 Organizational Culture	540 Survey of Organizational and Team Communication
560 Special Topics in Speech Communication	560 Special Topics in Communication Studies
580 Contemporary Rhetorical Theory	580 Survey of Public Communication
590 Directed Reading and Research	590 Project
591 Foreign Study	591 Foreign Study
592 Off-Campus Study/Internship	592 Off-Campus Study/Internship
593 Independent Study	593 Independent Study

*Cross-listed courses

SCHOOL OF INFORMATION SCIENCES**Information Sciences (560)**

REVISE CROSS-LISTING

450 Writing About Science and Medicine (3) (Same as Journalism and Electronic Media 450.)

(Formerly: Same as Journalism 450.)

*Primary course is Journalism and Electronic Media 450.***Effective: Fall 2004****SCHOOL OF JOURNALISM AND ELECTRONIC MEDIA****Journalism (594)**

DROP ALL CURRENT COURSES

Electronic Media (315)

DROP ALL CURRENT COURSES

ADD NEW ACADEMIC DISCIPLINE: Journalism and Electronic Media (592) (JEM)**Journalism and Electronic Media (592)**

ADD FOR GRADUATE CREDIT AND CROSS-LIST AS PRIMARY COURSE

400 Mass Communication Law and Ethics (3) Emphasis on legal issues affecting print and electronic media, including libel, privacy, copyright, free press-fair trial, governmental regulations of advertising, electronic media and public relations. Also includes ethical standards and practices. Prereq: Consent of instructor. (Same as Legal Studies 400.)

ADD FOR GRADUATE CREDIT AND CROSS-LIST AS PRIMARY COURSE

412 Opinion Writing (3) Analysis of editorial positions and practices. Writing editorials/columns for newspapers, magazines, corporate publications, and electronic media (radio, television, cable, Internet), with emphasis upon study and use of rhetorical devices and logic. Prereq: Consent of instructor. (Same as Public Relations 412.)

ADD FOR GRADUATE CREDIT

414 Magazine and Feature Writing (3) Techniques of writing features and in-depth articles for mass circulation and specialized magazines or newspapers. Organizing and presenting material, with attention to problems in areas such as business, science, agriculture, and the humanities. Prereq: 203 or consent of instructor.

415 Magazine Industry Workshop (3) Introduction to the magazine industry including management, design, writing and editing, and interactivity. Analysis of print and electronic format magazines. Planning new products for the marketplace. Prereq: 414 or consent of instructor.

430 Public Affairs Reporting (3) Reporting (including "database" reporting) and writing about courts, government and public agencies. Event and issue-oriented journalism of politics and public affairs. Prereq: 315.

433 Editing and Layout for Print/Web (3) Editing and layout for newspapers, magazines and online publishing. Prereq: 203 or consent of instructor.

440 Corporate Video (3) Examination of the special requirements of business, industrial, educational and medical uses of video. Includes management, budgeting, planning, producing, and evaluating projects. Students learn digital video production and non-linear editing. Prereq: 435 or consent of instructor.

444 Journalism as Literature (3) Study of writers from the 17th century to the modern era whose works have endured as both journalism and literature. An emerging genre called literary journalism will be examined as a means of cultural reporting with a personal narrative style. Prereq: Consent of instructor.

ADD FOR GRADUATE CREDIT AND CROSS-LIST AS THE PRIMARY COURSE

450 Writing About Science and Medicine (3) Writing workshop to analyze examples of successful science writing and write series of articles for general public based on scientific journals, news conferences, technical meetings and interviews. Prereq: Consent of instructor. (Same as Information Sciences 450.)

ADD FOR GRADUATE CREDIT

451 Environmental Writing (3) Writing for news media (including the Internet) on such environmental issues as sprawl, forests, air pollution, energy, and invasive species. Students hear presentations from and interview experts in environmental science and reporting. Exemplary environmental writing is analyzed. Prereq: Consent of instructor.

455 Issues in Science Communication (3) Topics vary. Prereq: Consent of instructor. May be repeated.

456 Science Writing as Literature (3) Survey of important science writing for the general public across the spectrum of science, engineering, and medicine. Works by authors such as Arthur C. Clarke, Stephen J. Gould, and Richard Selzer will be analyzed for literary qualities in a quest to understand why some science writing succeeds. Prereq: Consent of instructor.

457 Media and Society (3) Media processes and effects on society. Major theories/research are introduced and applied to current issues. Prereq: 200 and 275 or consent of instructor.

460 Electronic News Operations (3) Production of news programs for television, cable and the Internet. Advanced course in electronic news gathering, reporting, digital videography, non-linear editing, and producing. Computerized newsroom and studio are utilized. Prereq: 411.

465 Media and Diversity (3) Media coverage and portrayal of various social groups based on gender, class, and race/ethnicity. Effects of media on public perceptions and attitudes toward these groups. Discussion of historical and legal implications of media effects.

467 Mass Communication History (3) Development of the press and the role of mass communication in American history. Newspapers, magazines, radio, television, cable, satellite, and the Internet.

470 Cable, Broadband, and Interactive Digital Media (3) History and structure of cable television and other broadband delivery systems (DBS, Internet, etc.). Development of digital broadcasting, interactive television, and other broadband media systems and digital technologies. Regulatory, policy, programming, and management issues arising from new media and digital technologies. Prereq: 275 or consent of instructor.

475 Sports Writing (3) Writing sports stories, features and columns. Sports writing is considered from the standpoint of sports reporters, sports information specialists and others with an interest in writing about sports.

480 Broadcast and Cable Programming (3) Programming practices in radio, television and cable. Nature and types of programs. Radio formats and strategies. Acquiring and scheduling television and cable programs. Use of ratings in program decision-making. Program analysis and criticism. Prereq: 275.

488 Web Publishing (3) Cross-disciplinary approach to design and production of on-line publications. Emphasis on researching, planning, site content and design, and the economic, legal and ethical issues involved in online publishing. Prereq: Senior standing and consent of instructor. Prereq: Consent of instructor

490 Advanced Photojournalism (3) Advanced principles and methods of black-and-white photography. Introduction to color photography. News and feature photographs, photo essays. Prereq: 290 or consent of instructor.

491 Foreign Study (1-15) Advance approval of hours and topics by advisor required for registration. May be repeated. Maximum 15 hours.

ADD

500 Thesis (1-15) P/NP only.

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when the student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

510 International Communication (3) Studies the development and impact of international and trans-national media systems. Traces history of efforts to reach beyond national borders, and the implications for individuals, societies, global cultures, and political economies. Comparative analysis of media (print, broadcast, cable,

satellite, Internet), media practices, and flow of information throughout the world. Prereq: Consent of instructor or admission to program.

512 Mass Media Research Methods (3) Applications of communication research techniques for management. Gathering and analysis of data for assessing media audiences and message impacts. Prereq: Consent of instructor or admission to program.

520 Political Communication (3) Relationships among mass media, public relations and government and their roles in democratic society. Governmental public relations, political campaigns, coverage of military, executive, legislative and judicial branches of government, special interest groups and public access to government information.

525 Public Opinion (3) Role of press in developing and influencing public consensus. Social theories of public opinion and analysis of media's response. (Same as Public Relations 525.)

535 Publications Management (3) Problems in management, production, market analysis, and design. Techniques of writing, editing, and presenting comprehensive articles and other material; regional and specialized magazines. Individual editorial projects. Prereq: 485 or consent of instructor.

550 Writing And Editing Projects (3) Specialized writing or editing interests: agriculture, politics, labor, finance, science, technical, general publications. Prereq: Consent of instructor.

551 Seminar in Science, Society, and the Mass Media (3) Investigation of interplay between scientific community and mass media: how scientific information reaches public and impact of journalism on scientific practice. Prereq: Consent of instructor.

552 Seminar in Health Communication (3) Methods, problems, and issues of communication in health field. Media's reporting of health issues. Setting of media's "health agenda"; strategic uses of media in social marketing efforts; public communication of complex social/medical issues. Prereq: Consent of instructor.

553 Seminar in Risk Communication (3) Interaction of scientists, journalists, and public on scientific, technological, and medical risks; analysis of methods for enhancing public understanding. Prereq: Consent of instructor.

555 Seminar in Media Economics and New Technology (3) Electronic and print media ownership, finance and corporate structure. Roles of new technologies and marketing techniques in changing media content and function in future. Prereq: Consent of instructor or admission to program.

560 Advanced Web Publishing (3) Electronic research and publishing. Social, legal and ethical challenges surrounding online publishing. Project planning and storyboarding techniques for designing and creating site on Web. Prereq: 488

565 Electronic Media Law And Regulations (3) Legal problems faced by electronic media (radio, television, cable, satellite, and the Internet). Philosophy of regulatory policy formation. Efforts of self-regulation. Sociopolitical and public restraints, effects of laws and regulations. Prereq: Consent of instructor or admission to program.

570 Advanced Media Audience Analysis (3) Various techniques used by media companies and consultants in audience research. Deciding which method to use, interpreting results, and applying research to management decision making. Prereq: 302 or consent of instructor.

580 Seminar In Visual Communication (3) Behavioral aspects of communication with images. Theories of psychological effect in color, shape, texture, and other design elements.

585 Advanced Electronic Media Management (3) Financial management of broadcast, cable, and Internet operations: budgeting, financial planning, accounting, and related techniques. Theoretical perspectives in organization and management of commercial and non-commercial operations. Prereq: 485 or consent of instructor

590 Project (3) Capstone project under guidance of faculty. Applications of principles from previous coursework. Satisfactory/No Credit grading only.

593 Seminar In Journalism And Electronic Media Issues (3) Contemporary topics in communications. Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

597 Independent Study (3) Prereq: Consent of instructor.

598 Internship (3) Full-time (30-40 hours per week) work experience in news, production, or sales and management with non-university professional organization. Educational experience beyond that available at

university. Final term paper. No retroactive credit for previous work experience. Prereq: Senior or graduate standing, completion of core curriculum and at least 15 hours of Journalism and Electronic Media courses, GPA 3.0 or better, and consent of unit head.

Effective Date for all Journalism and Electronic Media Courses: Fall 2004

RATIONALE: Academic discipline, course descriptions, titles, and number changes accommodate reorganization of two former departments (Journalism and Broadcasting) into new School of Journalism and Electronic Media.

EQUIVALENCY TABLES

CURRENT ELECTRONIC MEDIA (315) GRADUATE COURSE	EQUIVALENT COURSE FALL 2004
EM 440 Corporate Video (3)	JEM 440 Corporate Video (3)
EM 450 Radio, Television and Society (3)	JEM 457 Media and Society (3)
EM 460 Broadcast News Operations (3)	JEM 460 Electronic News Operations (3)
EM 470 Cable, Broadband, and Interactive Digital Media (3)	JEM 470 Cable, Broadband, and Interactive Digital Media (3)
EM 480 Radio and Television Programming (3)	JEM 480 Broadcast and Cable Programming (3)
EM 498 Internship (3) TO BE DROPPED FALL 2004	----
EM 550 International Broadcasting (3)	JEM 510 International Communication (3)
EM 560 Radio & Television Law and Regulations (3)	JEM 565 Electronic Media Law and Regulations (3)
EM 570 Radio & Television Research (3)	JEM 570 Advanced Media Audience Analysis (3)
EM 580 Seminar in Radio and Television (3)	JEM 593 Seminar in Journalism and Electronic Media Issues (3)
EM 590 Advanced Radio & Television Management (3)	JEM 585 Advanced Electronic Media Management (3)
EM 597 Independent Study (3)	JEM 597 Independent Study (3)
EM 598 Internship (3)	JEM 598 Internship (3)

CURRENT JOURNALISM (594) GRADUATE COURSE	EQUIVALENT COURSE (FALL 2004)
JRN 403 International Communication (3) TO BE DROPPED FALL 2004	----
JRN 412 Opinion Writing (3)* Primary course. Cross-listed with Public Relations 412.	JEM 412 Opinion Writing (3)* Primary course. Cross-listed with Public Relations 412.
JRN 414 Magazine Article Writing (3)	JEM 414 Magazine and Feature Writing (3)
JRN 416 Issues in Journalism (3) TO BE DROPPED FALL 2004	----
JRN 420 Print Media Management (3) TO BE DROPPED FALL 2004	----
JRN 430 Public Affairs Reporting (3)	JEM 430 Public Affairs Reporting (3)

CURRENT JOURNALISM (594) GRADUATE COURSE	EQUIVALENT COURSE (FALL 2004)
JRN 433 Advanced Editing (3)	JEM 433 Editing and Layout for Print/Web (3)
JRN 444 Journalism as Literature (3)	JEM 444 Journalism as Literature (3)
JRN 450 Writing About Science, Technology, and Medicine (3)* *Primary course – cross-listed with Information Sciences 450.	JEM 450 Writing About Science and Medicine (3)* *Primary course – cross-listed with Information Sciences 450
JRN 451 Environmental Reporting (3)	JEM 451 Environmental Writing (3)
JRN 455 Issues in Science Communication (3)	JEM 455 Issues in Science Communication (3)
JRN 456 Science Writing as Literature (3)	JEM 456 Science Writing as Literature (3)
JRN 465 Women and Mass Media (3) [Primary course – cross-listed with Women's Studies 465 on UG level only.]	JEM 465 Media and Diversity (3) [Primary course – cross-listed with Women's Studies 465 on UG level only.]
JRN 460 Mass Communication History (3)	JEM 467 Mass Communication History (3)
JRN 470 Sports Writing (3)	JEM 475 Sports Writing (3)
JRN 490 Advanced Photojournalism (3)	JEM 490 Advanced Photojournalism (3)
JRN 491 Foreign Study (1-15) Not available for Graduate credit.	JEM 491 Foreign Study (1-15)
---	JEM 500 Thesis (1-15) NEW COURSE
---	JEM 502 Registration for Use of Facilities (1-15) NEW COURSE
JRN 520 Political Communication (3)* Primary course – Cross-listed with Public Relations 520. [Public Relations 520 to be dropped Fall 2004.]	JEM 520 Political Communication (3)
JRN 525 Public Opinion (3)* Primary course. Cross-listed with Public Relations 560.	JEM 525 Public Opinion (3)* Primary course. Cross-listed with Public Relations 525.
JRN 535 Publications Management (3)	JEM 535 Publications Management (3)
JRN 550 Writing and Editing Projects (3)	JEM 550 Writing and Editing Projects (3)
JRN 560 Publishing on World Wide Web (3)* Primary course. Cross-listed with Public Relations 560. [Public Relations 560 to be dropped Fall 2004.]	JEM 560 Advanced Web Publishing (3)
JRN 580 Seminar in Visual Communication (3)	JEM 580 Seminar in Visual Communication (3)
JRN 597 Independent Study (3)	JEM 597 Independent Study (3)
JRN 598 Internship (3)	JEM 598 Internship (3)

M E M O R A N D U M

To: Graduate Council Members
From: Tom George, Assoc. Dean
Date: December 11, 2003
Re: Graduate Curricular Items

The following curricular items were approved by the College of Education, Health, and Human Sciences' Curricular Review Committee and are recommended for approval by the Graduate Council.

In fall 2002, the College of Education, Health, and Human Sciences was created from the former College of Education and the former College of Human Ecology. The resulting merger of these colleges produced nine departments (previously 11 departments total in the two colleges). Seven of these nine departments are submitting one or more proposals for your consideration.

Many of the proposals that you will be reviewing here are attempts to further refine last year's efforts to reflect the creation of the new college and/or departmental structures. Also, a number of departments are submitting adjustments to curricular showcases (i.e., program requirements) that first appeared last year.

Without being too redundant, I will attempt to briefly summarize the proposals for program changes by department:

Consumer Services Management Department

The Department is changing the academic discipline (i.e., course prefix) for current courses from Hotel and Restaurant Administration to Hotel, Restaurant, and Tourism. This is needed to more accurately reflect the focus of these courses. One new course (501) is being added.

Educational Psychology and Counseling

In Year 2 of the M.S. in Counseling: Mental Health Concentration two courses (Coun 521 and 651) that have been previously been taught as special topics are being entered in the program requirements showcase as specific courses. The courses were recommended by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP), our accrediting agency, to become a requirement for the second year of the two year program in Mental Health Counseling. Reality therapy and solution-focused brief counseling training are needed by our graduates to meet managed care requirements for membership on eligibility panels.

The M.S. in Educational Psychology: Applied Psychology Concentration is adding a new course, EP 507: Survey of Educational Psychology, and a colloquium to the program's Core requirements. In addition, the Learning Principles course category will be changed from nine hours of restricted electives, selected from six courses, to nine hours in three courses that are required of all. None of these changes in this program are expected to have any financial impact.

Courses: Educational Psychology 601 is being revised and cross-listed, two courses are being added (507, 569), and 432 is being dropped. Two Counselor Education courses (521, 651) are being added, 601 is being added and cross-listed, and 525 is being revised.

Health and Exercise Science Department

The Master's in Public Health is proposing to add a new concentration in veterinary public health. Public health is one of the foundation responsibilities of veterinary medicine; and career opportunities with public agencies and industries are increasing for veterinarians prepared in public health.

The concentration will prepare the student to take the board examination of the American College of Veterinary Preventive Medicine (ACVPM). Instruction of specific veterinary public health courses will involve College of Veterinary Medicine faculty members who have MPH degrees and/or doctoral degrees in specific specialties related to public health.

The projected number of veterinary medicine students who may pursue graduate study in public health is approximately three per year. An equal number of graduate veterinarians also may enroll. During active pursuit of the DVM degree, the veterinary students will enroll in required foundation public health courses offered by the MPH program. It is believed that this small number of students can be accommodated without expanding MPH course sections, with the possible exception of offering one more required course (e.g., PH 510 or 530) during summer. Because 53% of MPH students are part-time (five year average), course enrollments typically fluctuate from year to year. Enrollment by veterinary students and graduate veterinarians should help stabilize course enrollments.

Required and elective courses for the veterinary public health concentration will be offered by the College of Veterinary Medicine and by other campus departments. No financial impact is anticipated due to the projected small number (4-5) of students per year who will enroll in public health related courses on a part-time basis. Contact has been made with several departments offering proposed required courses to assess their capability to provide seats for VPH students. The departments responding positively include: Food Science and Technology, Entomology and Plant Pathology, and Veterinary Medicine.

Instructional Technology and Educational Studies Department

The Department is proposing to offer a single doctoral degree, the PhD, while wanting to drop the Ed.D. Degree. The following items support this decision: 1) the demand for the Ed.D. program has diminished over time, 2) the two doctoral programs have become too similar with regard to the coursework component, and 3) the PhD program possesses the more rigorous research methodology component.

The Department is modifying the M.S. Cultural Studies Concentration, reducing the hour total from 36 to 35 and is attempting to clarify the showcase requirements.

The M.S. Curriculum Concentration is revising the catalog showcase. No change in hours.

The M.S. Instructional Technology Concentration is being reduced in minimum total hours for completion from 36 to 33 hours.

The Ed.S. Degree: Curriculum Concentration and Instructional Technology Concentration are being changed to include a requirement that a minimum of six hours be taken outside the concentration.

The PhD in Education: Cultural Studies Concentration; Curriculum and Educational Research, and Evaluation Concentration; and Instructional Technology Concentrations are being changed with regard to courses that comprise the Core and hour total in the Core is changing from 11 to 12 hours.

Courses: 601 is being added.

Nutrition

The Department is revising two courses (511, 512).

Sport and Leisure Studies

The Department is adding one Sport Management course and revising two Recreation and Leisure Studies courses.

Theory and Practice in Teacher Education

The Department is adding the requirement to all concentrations in the Ed.S. degree that students to take six hours outside the concentration area. The Early Childhood Education academic discipline is being dropped and the former courses moved to either the Elementary Education or Special Education academic discipline, and curriculum showcases are being revised. The Educational Interpreting academic discipline is adding 435 for graduate credit.

The College of Education, Health, and Human Sciences

The College requests that the term "concentration" be used in the general degree requirements section (p.21, 2003-2004 Graduate Catalog). The current references to "6 hours outside" are confusing and inconsistent.

In one paragraph, students are told to take 6 hours "outside the major academic unit or area," whereas, in the next paragraph, students are instructed to take those same 6 hours "outside the major."

If the intent of this requirement is for student to take 6 hours outside their primary program of study, then "concentration" seems to meet the spirit of this requirement.

Thank you for helping us build strong programs in the new college.

COLLEGE OF EDUCATION, HEALTH, AND HUMAN SCIENCES

DEPARTMENT OF CONSUMER SERVICES MANAGEMENT

Hotel and Restaurant Administration (512)

DROP HOTEL AND RESTAURANT ADMINISTRATION (512) ACADEMIC DISCIPLINE AND ALL GRADUATE COURSES

ADD A NEW ACADEMIC DISCIPLINE: HOTEL, RESTAURANT, AND TOURISM (514) (HRT)

Hotel, Restaurant, and Tourism (514)

ADD FOR GRADUATE CREDIT

423 Marketing for Hospitality and Tourism (3) Marketing principles and practices specifically applied to the hospitality and tourism industry. Includes the analyses of various hospitality and tourism marketing strategies and the implications of those strategies. Develops the use of marketing tools as an integral part of the hospitality and tourism operation. Prereq: 210, 211, 224, Marketing 300 or consent of instructor.

435 Conventions and Meetings: Pursuit and Attainment (3) Discussion of types of conventions/ meetings, roles of meeting planners, identifying decision makers, site selection, negotiating, budgeting, marketing and gaining commitment from group. Prereq: 210, 211, 390 or consent of instructor.

ADD

500 Thesis (1-15) P/NP only.

501 Professional Project (3-6) Application-oriented, capstone project to show competence in major academic area. Enrollment limited to hotel, restaurant and tourism students in non-thesis program. Prereq: Consent of instructor. May be repeated. Maximum 6 hours. Satisfactory/No Credit grading only.

Effective: Fall 2004

Rationale: Department does not current have a projects course and one is needed for our students.
Impact on other units and financially: None

502 Registration for Use of Facilities (1-15) Required for the student not otherwise registered during any semester when student uses University facilities and/or faculty time before degree is completed. May not be used toward degree requirements. May be repeated. Satisfactory/No Credit grading only.

ADD AND CROSS-LIST PRIMARY COURSE

510 Trends and Issues in Service Management (3) Examination of current and emerging trends and issues in the consumer product and services industry. Implications of trends and their managerial and strategic applications in services management. (Same as Recreation and Leisure Studies 510.)

ADD

523 Tourism Analysis (3) Trade theory and regional analysis methodologies applied to tourism and the service industry, including travel balance account, interregional transactions flow, economic impacts, environmental economics, demand theory and forecasting.

524 Tourism Destination Development (3) Relationship of economic theory and planning principles to tourism development. Includes the application of pre-feasibility analysis to tourism projects and the evaluation of various types of tourism and components of tourism.

532 Human Resource Management in Services Industry (3) Analysis of significant organizational processes and practices in management of human resources within consumer product and service industry.

534 Special Topics in Foodservice and Lodging Administration (1-3) Lecture/discussion format. Contemporary

developments and trends in industry. Prereq: Consent of instructor. May be repeated.

535 Directed Study in Foodservice and Lodging Administration (1-3) Problems selected for study by student with guidance of faculty member. Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

537 Seminar in Foodservice and Lodging Administration (1) May be repeated. Satisfactory/No Credit grading only.

542 Advanced Hotel Administration (3) Strategic management of hotel organizations. Theoretical and applied literature on formulation and implementation of strategy: external and internal factors relevant for business and corporate level decisions. Consideration of role of marketing in hotel firms. Analysis of industry and case studies. Prereq: 531, 532.

547 Field Experience (3-9) Experience in food- or lodging-related industry or agency under supervision of faculty member. Prereq: Consent of instructor. Satisfactory/No Credit grading only.

600 Doctoral Research and Dissertation (3-15) P/NP only.

Effective date for Hotel, Restaurant, and Tourism Courses: Fall 2004

(The only new course is 501. All others were formerly Hotel and Restaurant Administration courses.)

Rationale: Subject Area name is being revised to reflect focus of courses.

EQUIVALENCY TABLE

Hotel and Restaurant Administration Courses - Hotel, Restaurant, and Tourism Courses

CURRENT HOTEL AND RESTAURANT ADMINISTRATION GRADUATE COURSES	EQUIVALENT HOTEL, RESTAURANT, AND TOURISM GRADUATE COURSES – FALL 2004
423 Marketing for Hospitality and Tourism (3)	423 Marketing for Hospitality and Tourism (3)
435 Conventions and Meetings: Pursuit and Attainment (3)	435 Conventions and Meetings: Pursuit and Attainment (3)
500 Thesis (1-15)	500 Thesis (1-15)
*****	501 Professional Project (3-6) NEW COURSE
502 Registration for Use of Facilities (1-15)	502 Registration for Use of Facilities (1-15)
510 Trends and Issues in Service Management (3)* Cross-listed with Recreation and Leisure Studies 510. Primary course: Hotel and Restaurant Administration 510.	510 Trends and Issues in Service Management (3)* Cross-listed with Recreation and Leisure Studies 510. Primary course: Hotel, Restaurant, and Tourism 510
523 Tourism Analysis	523 Tourism Analysis
524 Tourism Destination Development (3)	524 Tourism Destination Development (3)
532 Human Resource Management in Services Industry (3)	532 Human Resource Management in Services Industry (3)
534 Special Topics in Foodservice and Lodging Administration (1-3)	534 Special Topics in Foodservice and Lodging Administration (1-3)
535 Directed Study in Foodservice and Lodging Administration (1-3)	535 Directed Study in Foodservice and Lodging Administration (1-3)
537 Seminar in Foodservice and Lodging Administration (1)	537 Seminar in Foodservice and Lodging Administration (1)
542 Seminar in Foodservice and Lodging Administration (1)	542 Seminar in Foodservice and Lodging Administration (1)
547 Field Experience (3-9)	547 Field Experience (3-9)
600 Doctoral Research and Dissertation (3-15)	600 Doctoral Research and Dissertation (3-15)

*Cross-listed Courses

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY & COUNSELING

REVISE MS – COUNSELING MAJOR – MENTAL HEALTH COUNSELING CONCENTRATION

On page 92 of the 2003-2004 Graduate Catalog, revise the 2nd year of the M.S. Counseling (Mental Health Counseling Concentration) as follows:

From

Year 2:	
COUN 535	3
COUN 552, 553	6
COUN 559	9
COUN 570	3
PSY 672	3
COUN 500 or electives	6
	30

To

Year 2:	
COUN 521	3
COUN 535	3
COUN 552, 553	6
COUN 559	9
COUN 570	3
PSY 672	3
COUN 651	3
	30

Rationale: The courses were recommended by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP), our accrediting agency, to become a requirement for the second year of the two year program in Mental Health Counseling. Reality therapy and solution-focused brief counseling training are needed by our graduates to meet managed care requirements for membership on panels.

Impact on other units and finances: None

Effective: Fall 2004

REVISE MS – EDUCATIONAL PSYCHOLOGY – APPLIED EDUCATIONAL PSYCHOLOGY CONCENTRATION

On page 91-92, revise the M.S. Educational Psychology, Applied Educational Psychology concentration program description as follows:

To

Master of Science (M.S.)
Educational Psychology (major)
Applied Educational Psychology (concentration)

This Master's program focuses on concepts, principles, techniques and models of educational psychology as they are used to facilitate teaching and learning and the creation of effective classroom environments for learners of all ages. The program includes traditional themes in educational psychology (e.g., human development, learning principles, assessment, and psychoeducational intervention). It is unique in its focus on meeting the needs of nontraditional and underachieving learners from birth through adulthood through the use of cognitive education interventions.

The master's program may be used as a stepping stone for entering a doctoral program in educational or school psychology or as an additional preparation for functioning in an educational role in schools, mental health centers, and business programs devoted to personal and professional development. The faculty members in the Department of Educational Psychology and Counseling are committed to the creation and study of environments that enhance learning potential and promote lifelong learning for people of all ages, abilities, and backgrounds.

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. Thesis students take 6 thesis hours toward the 36-hour program in lieu of electives. Approved courses and an additional program requirement are listed below. Equivalent courses may be substituted with the consent of the program committee.

Core Requirements (3 hours plus participation in 3 AEP colloquium meetings each semester)
EP 507 Survey of Educational Psychology (3 hours)
AEP/MS Colloquium Meetings (no credit, attendance required at three sessions per semester)

Human Development (6 hours minimum)
EP 510 Psychological Theories of Human Development Applied to Education (3 hours)
EP 522 Adult Development (3 hours)
PSY 511 Developmental Psychology (3 hours)

Learning Principles (9 hours minimum)
EP 515 Educational Applications of Behavioral Learning Theories (3 hours)

EP 671 Mediated Learning Theory (3 hours)
 PSY 560 Psychology of Learning (3 hours)

Research and Assessment (6 hours minimum)

CE 525 Formal Measurement in Education and Counseling (3 hours)

-and either-

EP 550 Statistics and Research Design: Conceptual (3 hours, required of non-thesis option students)

-or-

EP 577 Educational Statistics (3 hours, required of thesis option students)

Intervention (6 hours minimum)

EP 572 Cognitive Education Models and Approaches (3 hours)

EP 573 Meeting the Needs of Nontraditional and Underachieving Learners (3 hours)

EP 574 Facilitating Group Change (3 hours)

Electives (6 hours in lieu of thesis)

EP 460 Self Management in the Helping Professions

EP 513 Reflective Practice in Education and Psychology

EP 529 Facilitating Adult Learning

Rationale: The changes are the result of a decision to provide a clearer focus for the program and its students. We created a core that includes one course and one colloquium. In order to strengthen a mentoring and learning community atmosphere, students will be required to participate in three Applied Educational Psychology Colloquium Meetings every semester. In addition, we added a core course, EP 507: Survey of Educational Psychology. (We have dropped another course in the department in order to add this one, EP 432.) Although this optional course was popular, the person who taught it has retired and the content is being included in other program courses. Because most students in the program do not have a background in educational psychology, a survey course has long been needed. We also decided to provide fewer options for courses in most categories. No changes occurred in the category of Human Development. In Learning Principles, however, we removed three courses that are less related to the goals of the program (EP 516, 525 and 673) but designated the 3 courses we want all students to take. Under the category of Research and Assessment, corrected a change in course numbering and titles underway in other requests for changes and designated specific research courses for thesis and for non-thesis students that best meet student needs. The assessment course remains the same. Students will now take two courses in Intervention rather than 4, although non-thesis students (the vast majority of our majors) will select two additional intervention courses as electives.

Impact on other units and finances: None

Effective: Fall 2004

Counselor Education (255)

ADD

521 Mental Health Consultation (3) Intended for advanced students in the helping professions, especially Mental Health Counseling. Its main goal is to prepare students for providing mental health consultation and collaboration in the field.

651 Reality Therapy and Grief Counseling (3) Seminar in theory & practice of reality therapy and grief counseling for advanced graduate study. Prereq: COUN 551 or permission of instructor.

Rationale: Courses have been offered as special topics. Change to a permanent course number was mandated by our accrediting council.

Impact: No financial impact, nor impact on other units.

Format: Lecture/discussion. On-campus.

Effective: Fall 2004

ADD AND CROSS-LIST SECONDARY COURSE

601 Professional Seminar (1) (Same as Educational Psychology 601)

Primary course is Educational Psychology.

Rationale: This course needs to be cross-listed as COUN ED 601 so that Ph.D. in Education students—with a concentration in Counselor Education—can register for the course under the COUN ED subject area. The "Prerequisite" description changed from "Admission to Ph.D. program" to "Admission to a doctoral program in the Educational Psychology and Counseling Department" because Ed.D. students majoring in Educational Psychology and Counseling—with a concentration in Collaborative Learning—will take this course. Because there is no such subject area as "Educational Psychology and Counseling (600)," the description was corrected to read: "May not be used to meet the Educational Psychology 600 or Counselor Education 600 requirement."

Impact: None

Effective: Fall 2004

DELETE PREREQUISITE

525 Formal Measurement in Education and Counseling.

(Deletes prereq.) Formerly: Prereq: 520 or equivalent

Effective: Fall 2004

Rationale: Course content has changed so that prereq is no longer necessary.

Educational Psychology (310)

CATALOG CORRECTION TO UPDATE ACADEMIC DISCIPLINE OF CROSS-LISTED COURSE

From

635 Ethical, Legal, and Professional Issues in Psychology (3) (Same as Psychology 635 and Counselor Education and Counseling Psychology 635.)

To

635 Ethical, Legal, and Professional Issues in Psychology (3) (Same as Psychology 635 and Counselor Education 635.)

Primary course is Psychology 635.

Effective: Fall 2004

CATALOG CORRECTION TO UPDATE ACADEMIC DISCIPLINE OF PREREQUISITE COURSE

526 Informal Methods of Assessment (3) Prereq: Counselor Education 525

Formerly: Prereq: Counselor Education and Counseling Psychology 525.

541 Psychoeducational Assessment (3) Prereq: Admission to school psychology program or consent of instructor, and Counselor Education 525 or equivalent.

Formerly: Prereq: Admission to school psychology program or consent of instructor, and Counselor Education and Counseling Psychology 525 or equivalent.

663 Scale Construction (3) Prereq: Counselor Education 525, and two-course sequence in statistical analysis.

Formerly: Prereq: Counselor Education and Counseling Psychology 525, and two-course sequence in statistical analysis.

Effective: Fall 2004

Rationale: Correction to catalog since course prefixes have changed.

Impact: None

REVISE DESCRIPTION, PREREQUISITE, AND CROSS-LIST

From

601 Professional Seminar (1) An introduction to doctoral study in Educational Psychology and Counseling that explores research requirements, the meaning of scholarship in academe, resources, survival strategies for students, and related topics. Prereq: Admission to the Ph.D. program. May not be used to meet the Educational Psychology and Counseling 600 requirement. S/NC only.

To

601 Professional Seminar (1) An introduction to doctoral study in Educational Psychology and Counseling that explores research requirements, the meaning of scholarship in academe, resources, survival strategies for students, and related topics. Prereq: Admission to a doctoral program in the Educational Psychology and Counseling Department. May not be used to meet the Educational Psychology 600 or Counselor Education 600 requirement. Satisfactory/No Credit grading only. (Same as Counselor Education 601.)

Primary course is Educational Psychology 601.

Effective: Fall 2004

Rationale: This course needs to be cross-listed as COUN ED 601 so that Ph.D. in Education students—with a concentration in Counselor Education—can register for the course under the COUN ED subject area. The "Prerequisite" description changed from "Admission to Ph.D. program" to "Admission to a doctoral program in the Educational Psychology and Counseling Department" because Ed.D. students majoring in Educational Psychology and Counseling—with a concentration in Collaborative Learning—will take this course. Because there is no such subject area as "Educational Psychology and Counseling (600)," the description was corrected to read: "May not be used to meet the Educational Psychology 600 or Counselor Education 600 requirement."

Impact: None

ADD

507 Survey of Educational Psychology (3) Historical developments and current issues; analysis of concepts, principles, techniques and models as they are used to facilitate teaching and learning and the creation of effective educational environments.

Rationale: Allows students to gain breadth in understanding of the field and its basic concepts regarding teaching and learning. Fills a need not covered by other courses in our dept.

Impact: None.

Format: Taught once every two years during the fall semester, alternating with a course currently taught every year. Format will be on-campus, one evening a week in a standard seminar or classroom.

569 Internship in Educational Psychology (3) Supervised employment in unit approved educational psychology internship sites. May be repeated. Maximum 12 hours. Satisfactory/No Credit grading only.

Rationale: Allows students in the Master's program to receive credit for supervised field experience.

Impact: None.

Effective: Fall 2004

DROP FOR GRADUATE CREDIT

432 The Disadvantaged Student: Psychoeducational Perspectives (3)

Rationale: This course is no longer offered and the content is now covered in other courses.

Effective: Fall 2004

DEPARTMENT OF HEALTH AND EXERCISE SCIENCE

REVISE MPH – PUBLIC HEALTH TO ADD CONCENTRATION IN VETERINARY PUBLIC HEALTH

On Page 10 of the 2003-2004 Graduate Catalog, revise the list of concentrations as follows:

To

MAJOR
Public Health*

DEGREE
MPH

CONCENTRATIONS AVAILABLE
Community health education,
gerontology, health planning/
administration, veterinary
public health. Dual M.S.-M.P.H.
available.

Effective: Fall 2004

On page 113 of the 2003-2004 Graduate Catalog, revise the concentrations for the MPH program as follows:

To

Graduate study with a major in Public Health leads to the Master of Public Health (M.P.H.). Four professional preparation concentrations are available: community health education, gerontology, health planning/administration, and veterinary public health. The veterinary public health concentration is open to graduate veterinarians or students enrolled in the College of Veterinary Medicine. Preparation for professional practice in improving community health emphasizes a population perspective, service-learning and application opportunities through rigorous internships. The M.P.H. program is accredited by the Council on Education for Public Health. A minor in statistics is available to interested M.P.H. students due to public health affiliation with the Intercollegiate Graduate Statistics Program.

The Master's Program

The M.P.H. is a non-thesis program requiring completion of 38 semester hours of course work including 9 weeks of field practice. The field internship provides a full-time experience with an affiliated health agency or organization offering one or more health programs. Of importance, field practice allows the student to apply academic theories, concepts, and skills in an actual work setting. Students must complete all assigned prerequisite courses and 21 semester hours of the curriculum with a minimum overall GPA of 3.0 prior to placement in the field.

As an alternative to field practice, preparation of a master's essay may be used to fulfill the professional skills development component of the curriculum. Approval must be received from the Public Health Academic Program Committee and is contingent on consent of major advisor, formal written proposal by the student, and completion of an additional research methods course. Written guidelines stipulating expectations and eligibility criteria are available.

Requirements include:

1. Public Health Foundation courses (16 hours):
509, 510, 520, 530, 540, 555.
2. Internship (6 hours): 587, 588.
3. Concentration of Study (16 hours).

Recommended electives will be selected by the student in consultation with major advisor. A list of courses is available for each concentration: community health education, gerontology, health planning/administration and veterinary public health. For more information, refer to the website: hes.utk.edu/grad/public_health.html

Effective: Fall 2004

Rationale: Public health is one of the foundation responsibilities of veterinary medicine; and career opportunities with public agencies and industries are increasing for veterinarians prepared in public health. These opportunities are influenced by a critical need for veterinarians with a public health perspective to address food safety, food and animal production, zoonotic diseases and diseases foreign to the U. S., bio-and agrosecurity, public policy, and other challenges related to population health. The combination of DVM and MPH credentials has become appealing not only for students in veterinary medicine, but also for those veterinarians who have been in practice for several years. With its focus on disease prevention and community-based programming, public health contributes an important dimension to the professional preparation of veterinarians. The new concentration of study will provide highly appropriate learning experiences for veterinary students and practitioners focused directly on veterinary public health and potential board certification. The concentration will prepare the student to take the board examination of the American College of Veterinary Preventive Medicine (ACVPM). Instruction of specific veterinary public health courses will involve College of Veterinary Medicine faculty members who have MPH degrees and/or doctoral degrees in specific specialties related to public health.

Impact on other Units: Building on a twenty year working association between faculty in public health and in veterinary medicine, the proposal will formalize a partnership arrangement between the respective colleges. The initial proposal was developed by Dr. John New, Professor and Acting Head of the Department of Comparative Medicine, College of Veterinary Medicine.

A letter of support from the Dean of the College, Michael J. Blackwell, DVM, MPH is attached. Dr. James Brace, Associate Dean of Academic Programs for the College of Veterinary Medicine has stated that there would be no negative impact on courses within the professional curriculum (VM836 and VM837) if graduate veterinarians enrolled in the VPH concentration. These two courses are already required for veterinary students.

Dr. Reid Gerhardt, Entomology and Plant Pathology, has stated that students from the VPH concentration could be accommodated in his course (EPP525) with minimal impact, mostly some increased copy costs for distributed written materials.

Dr. Ann Draughon and Dr. John Mount, Department of Food Science and Technology, have indicated that the projected number of students enrolling in the VPH concentration would not negatively impact their courses (FST 420, 429, 490, 620) or increase departmental costs. There is space for additional students.

Financial Impact: The projected number of veterinary medicine students who may pursue graduate study in public health is approximately three per year. An equal number of graduate veterinarians also may enroll. During active pursuit of the DVM degree, the veterinary students will enroll in required foundation public health courses offered by the MPH program. It is

believed that this small number of students can be accommodated without expanding MPH course sections, with the possible exception of offering one more required course (e.g., PH 510 or 530) during summer. Because 53% of MPH students are part-time (five year average), course enrollments typically fluctuate from year to year. Enrollment by veterinary students and graduate veterinarians should help stabilize course enrollments.

Required and elective courses for the veterinary public health concentration will be offered by the College of Veterinary Medicine and by other campus departments. No financial impact is anticipated due to the projected small number (4-5) of students per year who will enroll in public health related courses on a part-time basis. Contact has been made with several departments offering proposed required courses to assess their capability to provide seats for VPH students. The departments responding positively include: Food Science and Technology, Entomology and Plant Pathology, and Veterinary Medicine.

THE UNIVERSITY OF TENNESSEE
COLLEGE OF VETERINARY MEDICINE



Office of the Dear
P. O. Box 1071
Knoxville, TN 37901-1071
Phone: 865/974-7262
Fax: 865/974-4773

April 25, 2003

Dr. Charles B. Hamilton, Professor
Department of Health and Exercise Science
372 Health, Physical Education and Recreation Building
CAMPUS

Dear Dr. Hamilton:

I am writing to indicate my full and enthusiastic support for the proposal to establish a Veterinary Public Health Concentration within the Masters of Public Health Program. As described in the proposal, such a concentration would be a substantial benefit to students in the professional veterinary curriculum by allowing them to complete many of the requirements for the MPH degree. I feel that such a concentration would also be attractive to graduate veterinarians seeking new direction for their careers. Consequently, a Veterinary Public Health Concentration would have a positive impact on the College of Veterinary Medicine and the profession as a whole. Courses exist and faculty are in place to provide appropriate learning experiences and support for veterinarians and veterinary students opting for this concentration.

I strongly recommend the establishment of this concentration and would be glad to answer any questions you or others may have. Thank you for your support of this proposal.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael J. Blackwell'.

Michael J. Blackwell, D.V.M., M.P.H.
Assistant Surgeon General, USPHS (Ret.)
Dean, College of Veterinary Medicine

sls

DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES

REVISE CATALOG TEXT TO INCLUDE INFORMATION ON THE ADMISSIONS PROCESS

On page 127 of the 2003-2004 Graduate Catalog, insert the following admissions statement to the first column just above the section titled "The Master's Programs:"

The mission of the ITES Department is to prepare teachers, instructors, curriculum planners, educational technologists, instructional designers, theorists and researchers. For additional information, please visit our web site, <http://ites.tennessee.edu/>

Application Process

Individuals seeking admission to any of the degree programs in ITES must first be admitted to the University of Tennessee (See the *Graduate Studies: Admission Requirements* section of this catalog). Following the submission of an application for graduate study at the University of Tennessee, individuals must make application to a specific

degree program within the ITES Department.

Applicants seeking Masters and Educational Specialist degrees may apply for admission at any time. Admission decisions related to these programs will occur throughout the calendar year and students may begin their coursework during any semester.

Applicants seeking admission to one of the Ph.D. program concentrations in ITES may apply at any time during the calendar year. However, admission decisions for doctoral applicants will be made only once per year, during the spring semester. Doctoral applicants admitted in the spring semester must matriculate during the fall semester of the same calendar year. Any Ph.D. applicant who is unable to meet these expectations will be required to re-apply for admission at a later date.

Individuals who wish to pursue any of the Ph.D. concentrations within the ITES department must submit an application to the department no later than February 1 in the calendar year in which they intend to matriculate. Ph.D. applicants admitted through this process will be notified by April 1.

Department-specific Admissions Criteria

Each Ph.D. applicant in ITES is required to submit a current set of GRE scores as part of his/her application. However, the ITES Department does not require MS or EdS applicants to submit GRE scores.

Effective: Fall 2004

Rationale: Clarifies admissions process for applicants to the ITES Department; ITES Dept. is changing from year-round admissions to once-per-year admissions for Ph.D. applicants; also formalizing its position on the use of GRE scores for admission to the department.
Impact: None

DROP THE Ed.D. PROGRAM – INSTRUCTIONAL TECHNOLOGY & EDUCATIONAL STUDIES MAJOR AND CONCENTRATIONS

On pages 127-128 of the 2003-2004 Graduate Catalog, drop the Ed.D. programs in ITES and delete all references to the Ed.D. and its concentrations on pages 10, 37, and 126.

Effective: Fall 2004

Rationale: During the past year, the ITES department deliberated on the desirability of maintaining two distinct programs of study leading to a doctoral degree. The consensus view of the department is that at this point in time, our students would be better served by one doctoral program of study, the Doctor of Philosophy. The following items support this critical decision: 1) the demand for the Ed.D. program has diminished over time, 2) the two doctoral programs have become too similar with regard to the coursework component, 3) the department has too few professorial resources to support two distinctly different doctoral programs, and 4) the Ph.D. program possesses the more rigorous research methodology component. In addition to the above rationale, the department feels that the Ph.D. program we are adopting will be sufficiently flexible to permit its adaptation to the varying needs of the students within the three program areas in the department.

REVISE MS – INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES – CULTURAL STUDIES IN EDUCATION CONCENTRATION

On page 127 of the 2003-2004 Catalog, revise the Master's Program, Cultural Studies in Educational Foundations Concentration as follows:

To

M.S. Instructional Technology and Educational Studies • Cultural Studies of Educational Foundations Concentration

Program Component	Credit Hours
Concentration.....	14
Cultural Studies in Education 590 (2 cr)	
Cultural Studies in Education 591	
Cultural Studies in Education 592	
Choose from the following courses	
Cultural Studies in Education 511, 539, 544, 545, 549, or 550	
Specialization (choose one)	9
Philosophy of Education	

Cultural Studies in Education 526, 539, 544, 547, 548, 608, or 609	
Sociology of Education	
Cultural Studies in Education 545, 549, 648, or 652	
History of Ed:	
Cultural Studies in Education 511, 539, 546, 609, or 625	
Research.....	6
Cultural Studies in Education 560, 561, 526, 625 (2 course sequence), or 660	
Thesis Hours.....	6
Instructional Technology and Educational Studies 500 or Instructional Technology and Educational Studies 503	
Total	35

Note. To meet program requirements, students must select specific 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.

Effective: Fall 2004

REVISE MS PROGRAM – INSTRUCTIONAL TECHNOLOGY & EDUCATIONAL STUDIES – CURRICULUM CONCENTRATION (THESIS/NON-THESIS)

On page 127 of the 2003-2004 Graduate Catalog, revise the Master's program:

To

Master's Program Instructional Technology and Educational Studies • Curriculum Concentration (Thesis/Non-Thesis)

Program Component	Credit Hours
Core.....	3
Theory and Practice in Teacher Education 517	
Concentration	9
Select one course in each of the following areas:	
Educational Foundations (3 cr)	
Instructional Technology (3 cr)	
Curriculum, Educational Research and Evaluation 534 or 560, 558, 588 (3 cr)	
Electives	9 or 18
Thesis-Only (9 cr)	
Non-Thesis-Only (18 cr)	
Research	3
Thesis: Curriculum, Educational Research and Evaluation 520	
Non-Thesis: Curriculum, Educational Research and Evaluation 580	
Thesis (Thesis-only)	6
Instructional Technology and Educational Studies 500	
Total Thesis	30
Total Non-Thesis	33

Note. To meet program requirements, students must select specific 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.

Effective: Fall 2004

REVISE EDUCATIONAL SPECIALIST – INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES – CURRICULUM CONCENTRATION (THESIS/NON-THESIS)

On page 127 of the 2003-2004 Graduate Catalog, revise the Ed.S. as follows:

To

Ed.S. Instructional Technology and Educational Studies • Curriculum Concentration (Thesis/Non-Thesis)

Program Component	Credit Hours
Program Pre-Requisites	
Dependent on student background	

Core	6
Curriculum, Educational Research and Evaluation 676; Instructional Technology 521 or 575 (or 600 level substitute)	
Concentration	18
A minimum of 6 hours must be taken outside the Curriculum concentration	
A maximum of 9 hours in Curriculum, Educational Research and Evaluation	
Three hours in one of the following:	
Instructional Technology	
Cultural Studies in Education	
Research (max 3 cr per semester)	6
Thesis-Only: Instructional Technology and Educational Studies 518	
Non-Thesis-Only: Instructional Technology and Educational Studies 503	
Total	30

Note. To meet program requirements, students must select specific 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.

Effective: Fall 2004

REVISE MS – INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES – INSTRUCTIONAL TECHNOLOGY CONCENTRATION

On page 127 of the 2003-2004 Graduate Catalog, revise the Master's Program and the Educational Specialist Program with Instructional Technology Concentrations as follows:

To

M.S. Instructional Technology and Educational Studies • Instructional Technology Concentration (Thesis/Non-Thesis)

Program Component	Credit Hours
Core	9
Theory and Practice in Teacher Education 517 (3 cr)	
Select one course in each of the following areas (6 cr):	
Educational Foundations	
Curriculum, Educational Research and Evaluation	
Concentration	12
Instructional Technology 521, 570, 573, 575	
Electives	3 or 9
Thesis-Only: (3 cr)	
Non-Thesis-Only: (9 cr)	
Research	3
Thesis-Only:	
Curriculum, Educational Research and Evaluation 520	
Non-Thesis-Only:	
Curriculum, Educational Research and Evaluation 580	
Thesis (Thesis-Only):	
Instructional Technology and Educational Studies 500	6
Total Thesis	33
Total Non-Thesis	33

Note. To meet program requirements, students must select specific 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.

Effective: Fall 2004

REVISE Ed.S. INSTRUCTIONAL TECHNOLOGY AND EDUCATIONAL STUDIES – INSTRUCTIONAL TECHNOLOGY CONCENTRATION (THESIS/NON-THESIS)

To

Ed.S. Instructional Technology and Educational Studies • Instructional Technology Concentration (Thesis/Non-Thesis)

Program Component¹	Credit Hours
Core	6
Select one course in each of the following areas (6 cr): Curriculum, Educational Research and Evaluation Educational Foundations and Cultural Studies	
Concentration	18
^a Instructional Technology 521, 570, 573, 575 (and approved substitutions) Minimum of 6 hours taken outside the concentration	
Research (max 3 cr per semester)	6
Thesis-Only: Instructional Technology and Educational Studies 518	
.....Non-Thesis-Only: Instructional Technology and Educational Studies 503	
Total	30

¹Program Pre-Requisites: Must hold Master's Degree in Education or related field.

Note. To meet program requirements, students must select specific 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.

^aThese courses are required for students who do not have a Masters degree in Instructional Technology.

Effective: Fall 2004

REVISE Ph.D. – EDUCATION – CULTURAL STUDIES IN EDUCATIONAL FOUNDATIONS CONCENTRATION

On page 128 of the 2003-2004 Graduate Catalog, revise the Ph.D. Program, Cultural Studies in Educational Foundations Concentration as follows:

To

Ph.D. in Education • Cultural Studies of Educational Foundations Concentration

Program Component¹	Credit Hours
Departmental Core	12
Instructional Technology and Educational Studies 601 (3 cr)	
Select one course in each of the following areas (9 cr): Cultural Studies in Education 607 Instructional Technology 521 or 679 Curriculum, Research and Evaluation 534, 558, 675, or 676	
Concentration	16
Cultural Studies in Education 550, 590 (4 cr), 591, 592, 609	
Specialization	9
(select one of the following areas) Philosophy of Education: Cultural Studies in Education 526, 539, 544, 547, 548, or 608 Sociology of Education: Cultural Studies in Education 545, 549, 648, or 652 History of Education: Cultural Studies in Education 511, 539, 546, 609, or 625	
Research	15
(Both Qualitative and Quantitative Research Methodologies must be included) Curriculum, Research and Evaluation 520 (3 cr) Research Methods Electives (12 cr)	
Cognate	6
Dissertation Hours	24
Instructional Technology and Educational Studies 600	
Total	82

¹Program Pre-Requisites: Students entering the Ph.D. program with a concentration in Cultural

Studies must possess a Master's degree in a related area such as Anthropology, History, Philosophy, Psychology, or Sociology

Note. To meet program requirements, students must select specific 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.

Effective: Fall 2004

REVISE Ph.D. – EDUCATION – CURRICULUM, EDUCATIONAL RESEARCH, AND EVALUATION CONCENTRATION

On page 128 of the 2003-2004 Graduate Catalog, revise the Ph.D. Program, Curriculum Concentration as follows:

To

Ph.D. Education – Curriculum, Educational Research, and Evaluation Concentration

Program Component	Credit Hours
Departmental Core	12
Instructional Technology and Educational Studies 601 (3 cr)	
Select one course in each of the following areas (9 cr):	
Cultural Studies in Education 550 592, or 607	
Instructional Technology 521 or 679	
Curriculum, Research and Evaluation 676	
Concentration	15
Required (9 cr):	
Curriculum, Research and Evaluation 534, 623, 675	
Elective (6 cr):	
Curriculum, Research and Evaluation 560, 674, 558, or 588	
Specialization	9
Research	15
(Both Qualitative and Quantitative Research Methodologies must be included)	
Curriculum, Research and Evaluation 520 (3 cr)	
Research Methods Electives (12 cr)	
Cognate	6
Dissertation Hours	24
Instructional Technology and Educational Studies 600	
Total	81

Note: Program prerequisites are dependent on student background. To meet program requirements, students must select specific 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.

Effective: Fall 2004

REVISE Ph.D. – EDUCATION – INSTRUCTIONAL TECHNOLOGY CONCENTRATION

On page 128 of the 2003-2004 Graduate Catalog, revise the Ph.D. Program, Instructional Technology Concentration as follows:

To

Ph.D. Education • Instructional Technology Concentration

Program Component	Credit Hours
Instructional Technology 521, 570, 573, 575 ¹	
Departmental Core	12
Instructional Technology and Educational Studies 601 (3 cr)	
Select one course in each of the following areas (9 cr):	
Cultural Studies in Education 550, 592, or 607	
Instructional Technology 679	
Curriculum, Research and Evaluation 534, 558, 675, or 676	
Concentration	15
Instructional Technology 678 (3 cr)	
Other IT Electives (12 cr)	
Specialization	9
Cognate	6

Research	15
(Both Qualitative and Quantitative Research Methodologies must be included)	
Curriculum, Research and Evaluation 520 (3 cr)	
Research Methods Electives (12 cr)	
Dissertation Hours	24
Instructional Technology and Educational Studies 600	
Total	81

¹Program Pre-Requisites (12 credit hours)

Students entering the Ph.D. Program with a concentration in IT must possess a Master's degree in IT or a closely related field or complete prerequisite courses listed below or show evidence of comparable course work or work experience.

Note. To meet program requirements, students must select specific 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.

Effective: Fall 2004

Rationale for Showcase Changes: Clarifies showcases for students; corrects some errors and, in the Ph.D. programs, replaces the previous trans-college seminar with a departmental course.

Instructional Technology & Educational Studies (570)

ADD

601 Foundations of Research, Scholarship & Doctoral Study (3) Introduction to Ph.D. program concentrations in ITES: research requirements, meaning of scholarship in academe and issues/problems in education. Prereq: Admission to a Ph.D. program in ITES.

Effective: Fall 2004

Rationale: A requirement for doctoral students in the Ph.D. program in the former College of Education was completion of EDUC 601: Trans-College Seminar. As of Spring 2003, this course has been discontinued. The proposed course, ITES 601, will serve as a replacement course for the EDUC 601 for all doctoral students in the ITES department.

DEPARTMENT OF NUTRITION

Nutrition (726)

REVISE TITLE, DESCRIPTION, AND PREREQUISITE

From

511 Advanced Physiological Chemistry (4) Bioenergetics, flux control and hormonal interrelationships. Prereq: Advanced Nutrition or equivalent.

To

511 Advances in Carbohydrate, Lipid and Protein Metabolism (4) The physiological impact of dietary carbohydrates, lipids and proteins, with an emphasis on nutritional and hormonal regulation of intermediary metabolism, bioenergetics and gene regulation. Prereq: Advanced Nutrition course.

From

512 Human Nutrition (3) Advances in carbohydrates, proteins, fats, minerals, and vitamins. Nutrient requirements of humans. Prereq: Advanced Nutrition and 511.

To

512 Advances in Vitamin and Mineral Metabolism (3) Advances in the requirements, utilization, metabolism and physiological impact of micro-nutrients with an emphasis on vitamins and minerals in the context of human nutrition. Prereq: Advanced Nutrition course.

Effective: Fall 2004

Rationale: Revisions more accurately describe the course content.

DEPARTMENT OF SPORT & LEISURE STUDIES**Recreation & Leisure Studies (853)**

REVISE PREREQUISITE

430 Organization and Administration of Leisure Studies (3) Prereq: 310 or Sport Management 350.

(Formerly: Prereq: 310 or consent of instructor.)

Effective: Fall 2004

REVISE CROSS-LISTING OF SECONDARY COURSE

510 Trends and Services in Service Management (3) (Same as Hotel, Restaurant, and Tourism 510.)

(Formerly same as Hotel and Restaurant Administration.)

Sport Studies (959)

ADD

536 Expert Performance in Sports (3) Examines expertise in athletic performance with a primary focus on the development and maintenance of expertise. Special emphasis will be placed on theoretical and practical perspectives on the study of sport expertise as they intersect with issues regarding sport psychology, race, aging, gender, or other socio-cultural factors.

Effective: Fall 2004

Rationale: Provides students with a better understanding of critical issues related to expert performance in sport. Information will be relevant to other areas concerned with maximizing human performance such as Sport Studies, Exercise Science, Performing Arts, Dance, and Industrial and Applied Psychology.

Format: Graduate course, taught on-campus in a standard classroom setting.

Financial impact: The addition of this course will be offset by a reduction of courses no longer offered by the department. Therefore, no additional resources will be needed to offer this course.

DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION

REVISE REQUIREMENTS FOR Ed.S. – TEACHER EDUCATION AND REPLACE CATALOG TEXT

On Page 194 of the 2003-2004 Graduate Catalog, revise the Ed. S. program section as follows:

To

THE SPECIALIST IN EDUCATION PROGRAM

The Educational Specialist degree program with a major in Teacher Education encompasses concentrations in:

- Elementary Education
- English Education
- Foreign Language/ESL Education
- Mathematics Education
- Reading Education
- Science Education
- Social Science Education
- Special Education

These concentrations require completion of a minimum of 30 hours of coursework beyond the master's degree, including 6 hours in core courses, 18 hours in specialized courses, and 6 hours to be determined by the student's committee. Both thesis and non-thesis options are available.

Degree Program Requirements

An M.S./M.A. is required for admission; most programs in Theory and Practice in Teacher Education also require a minimum of three years of professional experience.

The total Ed.S. Program involves a minimum of four semesters of study with no fewer than 60 semester hours of graduate credit beyond the baccalaureate, including research/thesis hours.

400-level education courses required for licensure are not eligible.

At least 2/3 of semester hours accumulated in M.S./M.A. and all of the last 30 semester hours of coursework must be in 500- or 600-level courses.

The Ed.S. thesis must be approved by the student's committee prior to submission to the Office of Graduate Studies for final approval and acceptance. The student must register for thesis hours during this time.

Credit Hours	
Core Area	6
Must include one course from two of the following areas outside the concentration:	
• Curriculum or Leadership Anthropological, Historical, Philosophical or Social Foundations	
• Human Growth and Development	
• PreK-14 Teaching Methodology	
• Instructional Technology	
Concentration	
• Concentration	12
Specialty Area Methods Theory and Practice in Teacher Education 593, 594, 595	
• Research	6
Theory and Practice in Teacher Education 518 OR Thesis 500	
Related Studies	6
Must be related to focus of degree and must be outside Specialty Area education program, e.g., English, Reading, Speech, Drama, Communication, Instructional Technology, Math, Science, Social Sciences	
Total Non-Thesis	30
Total Thesis	30

Effective: Fall 2004

Rationale: Current showcase is not accurate.

Financial Impact: None

Early Childhood Education (279)

DROP THE EARLY CHILDHOOD EDUCATION ACADEMIC DISCIPLINE AND COURSES.

Effective: Fall 2004

REVISE REQUIREMENTS (CURRICULUM SHOWCASE – GRADUATE CATALOG, PAGE 193) FOR M.S. TEACHER EDUCATION – EARLY CHILDHOOD SPECIAL EDUCATION (TRACK 1) TO CHANGE THE EARLY CHILDHOOD EDUCATION COURSES TO THE EQUIVALENT COURSES AD FOLLOWS:

From:

Early Childhood Education 554	3
Early Childhood Education 566	3
Early Childhood Education 567	3
Early Childhood Education 568	3

To:

Special Education 554	3
Elementary Education 566	3
Elementary Education 567	3
Special Education 568	3

Effective: Fall 2004

REVISE REQUIREMENTS (CURRICULUM SHOWCASE – GRADUATE CATALOG, PAGE 193) FOR M.S. TEACHER EDUCATION – READING EDUCATION (TRACK 1) AND ELEMENTARY EDUCATION (TRACK 1) AS FOLLOWS:

Delete “Early Childhood Education” from the “Choose from at least 3 areas” group (for Elementary Education – Track 1_ and the “Choose 3/9 hours from” group (for Reading Education – Track 1).

REVISE REQUIREMENTS (TEACHER EDUCATION – M.S. TRACK 2), GRADUATE CATALOG, PAGE 194 – ADDITIONAL COURSE REQUIREMENTS:

From:

Early Childhood Special Education 554, 566, 567, 568 12

To:

Elementary Education 566, 567, Special Education 554, 568 12

Effective: Fall 2004**Special Education (932)**

ADD FOR GRADUATE CREDIT

471 Early Childhood Special Education (3) Assessment, curriculum planning and development and teaching approaches used in early childhood special education. Prereq: Admission to teacher education.

ADD

554 Assessment in Early Childhood Special Education (3) Development of knowledge and skills in appropriate formal and informal assessments of handicapped infants and young children: screening, identification, diagnosis, placement and programming assessment issues. Prereq: 553 or consent of instructor.

568 Early Childhood Special Education: Theories and Interventions (3) Theoretical perspectives of early childhood special education; exploration of programmatic models, family-focused concepts and curriculum development.

Effective: Fall 2004**Elementary Education (322)**

ADD FOR GRADUATE CREDIT

445 Early Childhood Education: Program Development and Teaching in Kindergarten (3) Curriculum planning, classroom organization and management practices for teaching young children; relationship of kindergarten to total elementary school. Prereq: Admission to teacher education.

ADD

515 Seminar (1-3) Curriculum, instructional technology, elementary education, secondary education, or social foundations as related to goals of students' programs. May be repeated. Maximum 6 hours. Satisfactory/No Credit grading only.

566 Curriculum for Early Childhood Education (K-3) (3) Theoretical foundations and current research in content and skill areas of curriculum for kindergarten-grade 3; application to local school setting. Prereq: Consent of instructor. May be repeated. Maximum 9 hours.

567 Application of Theory in Early Childhood Education (K-3) Principles and practices from selected theoretical orientations. Prereq: Course in early childhood education or consent of instructor. May be repeated. Maximum 6 hours.

584 Seminar in Early Childhood Education (3) Analysis of research and theory in early childhood education; educative process of young children. Prereq: Course in early childhood education. May be repeated. Maximum 6 hours.

650 Advanced Studies in Early Childhood Education (3) Prereq: 2 graduate courses in early childhood education and consent of instructor. May be repeated. Maximum 6 hours. Satisfactory/No Credit grading only.

Effective: Fall 2004

Rationale: Department has several subject areas that seem to overlap. This deletion is designed to streamline our course offerings and have fewer subject areas.

EQUIVALENCY TABLE

Current Early Childhood Education Graduate courses	Equivalent courses – Fall 2004
445	Elementary Education 445
471	Special Education 471
515	Elementary Education 515
554	Special Education 554
566	Elementary Education 566
567	Elementary Education 567
568	Special Education 568
584	Elementary Education 584
650	Elementary Education 650

Educational Interpreting (287)

ADD FOR GRADUATE CREDIT

435 Linguistics of American Sign Language (3) Introduction to grammatical and linguistic structures of ASL. Language variations, discourse, bilingualism and language contact also covered in this course. Course conducted in ASL. Prereq: 431 or consent of instructor.

Effective: Fall 2004

Rationale: This course was previously offered for Graduate Credit (2001-2002). During our reorganization and change of subject area names, the course was dropped from the Rehabilitation and Deafness subject area and added to Educational Interpreting, but only at the UG level. It should be available for both UG & Grad credit.

Impact: None.

Format: Course will be offered once each academic year. Regular classroom format.

COLLEGE OF EDUCATION, HEALTH & HUMAN SCIENCES

REVISE SPECIALIST IN EDUCATION CATALOG TEXT FOR CLARIFICATION

On page 21 of the 2003-2004 Graduate Catalog, revise the end of the first paragraph of the Course Requirements section of the Specialist In Education Degree as follows:

To

A minimum of 6 hours is required outside the concentration.

On page 21 of the 2003-2004 Graduate Catalog, revise the second sentence in the second paragraph of the Course Requirements section of the Specialist In Education Degree as follows:

To

However, no modifications will be permitted in examination and research requirements, nor in the minimum 6 graduate hours required outside the concentration.

Effective: Fall 2004

Rationale: Provides consistent terminology.

Memo

To: Graduate Council

From: Luther Wilhelm
Associate Dean

Date: 10 December 2003

Re: Graduate Curricular Changes – College of Engineering

The attached curricular proposals have been approved by the faculty of the College of Engineering and are submitted to the Graduate Council for consideration. These proposals are summarized as follows:

Chemical Engineering - Revise cross-listing of one course to add Biomedical Engineering.

Civil and Environmental Engineering

1. Revise two courses and drop two courses (actually merge four courses into two).
2. Revise one prerequisite.
3. Revise cross-listed course.

Electrical and Computer Engineering

1. Add direct PhD program option and MS non-thesis courses only option; add M.S. concentrations.
2. Revise one course (also in undergraduate proposal); revise revise cross-listed course.
3. Add six courses.

Industrial and Information Engineering

1. Departmental name change (informational item).
2. Add Ph.D. program in IE. (**Effective Fall 2004, if possible**)
3. Add Information Engineering concentration.
4. Add four courses; drop two; one of the dropped courses is cross-listed with Management Science.

Materials Science and Engineering

1. Add GRE requirement statement.
2. Add three courses.
3. Revise one cross-listed course.

Mechanical, Aerospace, and Biomedical Engineering

1. For Aerospace Engineering, revise cross-listing of five courses and add three cross-listed courses.
2. For Biomedical Engineering,
 - a. Add two courses; add and cross-list 3 primary courses.
 - b. Add/cross-list ten courses from other programs (secondary courses).
3. For Engineering Science
 - a. Drop one course.
 - b. Add/cross-list two courses from other program.
 - c. Revise cross-listing of six courses.
4. For Mechanical Engineering
 - a. Drop two courses, add one, add and cross-list two, and revise one.
 - b. Revise cross-listing of seven courses.
 - c. Add/cross-list three secondary courses.

Nuclear Engineering

1. Revise 600-level course statement to specifically allow one course to be taken outside the Nuclear Engineering Department.
2. Revise Dual MS-MBA curriculum previously approved (pending proposal from College of Business Administration).

COLLEGE OF ENGINEERING

DEPARTMENT OF CHEMICAL ENGINEERING

Chemical Engineering (226)

REVISE CROSS-LISTING TO ADD BIOMEDICAL ENGINEERING

507 Application of Linear Algebra in Engineering Systems (3) (Same as Biomedical Engineering 507, Electrical and Computer Engineering 507, Materials Science and Engineering 507, and Mechanical Engineering 507.)

Primary course is Chemical Engineering.

Effective: Fall 2004

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Civil Engineering (254)

REVISE COURSE TITLE, DESCRIPTION, AND PREREQ

From

490 Water Resources Project Design (3) Coherent development of multipurpose reservoir and dam project, data acquisition; spillway and outlet works design; earthen and gravity dam stability analyses; drains and filters; maintenance and operation principles; and dam safety concepts, dam break analyses. Prereq: 390, 395.

To

490 Water Resources Engineering (3) Application of hydrologic/hydraulic principles for development of water resource project design and management of water resources; assessment of environmental impacts to surface water and groundwater; regulatory framework for water supply and water quality. Prereq: 390, and 395 or 416.

Effective: Fall 2004

SUPPORTING INFORMATION

a. Rationale: The revised course incorporates material from CE 495, thus allowing dropping CE 495.

DROP

495 Water Resources Development and Management (3)**SUPPORTING INFORMATION**

a. Rationale: The course duplicates material in the revised CE490.

Effective: Fall 2004

Environmental Engineering (344)

REVISE COURSE TITLE AND DESCRIPTION

From

520 Open Channel Hydraulics (3) Open channel flow principles, properties, and classifications; uniform and gradually varied flow theory and applications; open channel design; unsteady flow theory and analysis: dynamic routing; spatially varied flow; nonlinear alignment; microcomputer applications, featuring HEC-2 model. Prereq: Hydraulics.

To

520 River Mechanics (3) An integrated study of river mechanics including the principles of open channel flow, and the fluvial processes associated with a mobile bed. Theory and analysis of open channel hydraulics include uniform, gradually-varied, rapidly-varied, spatially-varied, and unsteady flow conditions. Fluvial processes consist of sediment properties, dynamics of suspended and bedload sediment transport, adjustments in channel morphology and channel stability, channel regime theory and erodible channel design, and modeling applications. Prereq: Civil Engineering 390

SUPPORTING INFORMATION

a. Rationale: The revised course incorporates sediment transport, thus allowing dropping of EV 524.

DROP

524 Sediment Transport (3)

SUPPORTING INFORMATION

- a. Rationale: The course duplicates material in the revised EV520.

REVISE PREREQUISITE

525 Soil Erosion and Sediment Yield (3) Prereq: Civil Engineering 395 or 416.

(Formerly: Prereq: Civil Engineering 395)

Effective: Fall 2004

REVISE TITLE, DESCRIPTION, PREREQUISITE OF PRIMARY CROSS-LISTED COURSE

From

535 Ground Water Hydrology (3) Dynamics of flow and contaminant transport in porous media: hydrodynamics, dispersion, anisotropy, layered soils, unsaturated flow and groundwater contaminant transport phenomena. Analytical and numerical solution of flow and transport equations. Prereq: Hydraulics and Hydrology or Civil Engineering 485 for geology majors. (Same as Geology 535.)

To

535 Applied Ground Water Hydrology (3) Applied hydrology of multi-layered aquifer systems. Modeling of complex ground water systems that will include: the development and implementation of conceptual, analytical and numerical models. Numerical approaches to the solution of PDEs that describe flow through porous media: boundary conditions, stability, existence and uniqueness. Prerequisite: 485 or Geology 485 or consent of instructor. (Same as Geology 535.)

Effective: Fall 2004

Supporting Information:

- a. Rationale: Currently there are two groundwater courses that are co-listed between Civil and Environmental Engineering and Geological Sciences (home department listed first): Geology/CE 485 and ENVR/Geology 535. There is significant overlap between the two courses. We propose to make 535 an advanced course with the 485 course being a prerequisite for it. This proposal would make available an advanced course in groundwater hydrology to students in both departments, without adding additional instructional resources. The two-course sequence will also help foster collaboration between the Geological Sciences and Civil and Environmental Engineering faculty and students.
- b. Impact on other academic units: See justification above. The Department of Earth and Planetary Sciences supports this change as indicated in the parallel proposal (College of Arts and Sciences).

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

ADD CONCENTRATIONS TO THE MS IN ELECTRICAL ENGINEERING

On page 10 of the 2003-2004 Graduate Catalog under Graduate Majors and Degree Programs in the College of Engineering add M.S. to the listing under the Concentrations Available

Electrical Engineering*

M.S., Ph.D.

M.S. and Ph.D. - circuit theory, communication theory, computers, control systems, electro-optics, electromagnetic theory, plasma engineering, power electronics, power systems, solid-state electronics

SUPPORTING INFORMATION

- a. Rationale: Corrects previous error omitting concentrations available for the M.S.

REVISE DEPARTMENTAL CATALOG TEXT

On pages 98 and 99 of the 2003-2004 Graduate Catalog, replace the entire program text between the faculty listing and the course listing with the following text:

The Department of Electrical and Computer Engineering offers graduate programs leading to the Master of Science and Doctor of Philosophy with a major in Electrical Engineering. Graduate students are able to conduct research in a wide variety of areas of Electrical and Computer Engineering including: communications, electromagnetics, robotics, intelligent control, mixed-signal electronics, microelectronics, plasma engineering,

power electronics and systems, electric power systems, computer architecture, networks, image processing, computer vision, VLSI system design, embedded systems, data fusion, data visualization, data structures and information systems.

The Departmental Graduate Committee is responsible for administering, promoting, and advancing the general well-being of the graduate program. Departmental actions regarding a graduate student may be appealed in writing, first to the departmental graduate committee and then to the department faculty.

ADD A COURSE-ONLY MS NON-THESIS OPTION TO THE MS IN ELECTRICAL ENGINEERING

THE MASTER'S PROGRAM

Graduate work leading to the Master of Science with a major in Electrical Engineering may be completed during three semesters of full-time study, or two to three years of part-time study.

Admission Requirements

Applicants for admission to the M.S. degree program are expected to have completed a bachelor's degree in Electrical Engineering or Computer Engineering with an average of at least 3.0 out of 4.0 both overall and in the senior year. In addition, all applicants are required to submit scores from the General Graduate Record Exam (GRE). Applicants whose native language is not English, including those who have earned degrees at U.S. institutions must score at least 213 on the computer-based TOEFL exam or 550 on the written exam to be considered for admission to the program.

Applicants who hold the bachelor's degree in other fields of engineering, computer science, mathematics, or the physical sciences are also expected to have a minimum cumulative grade-point average of 3.0 and a minimum senior year average of 3.0 in that field. The department will require that selected undergraduate courses be taken as determined by the applicant's prior education and experience. The student will be admitted under non-degree status until the required undergraduate courses are successfully completed with a 3.0 average.

Master's Degree Requirements

Students may choose between a thesis option, a non-thesis course only option, and a non-thesis project option M.S. program. All students must file a Master's Program Plan with the departmental graduate committee specifying which option they have selected, a semester-by-semester schedule of the courses they intend to take, and the members of the student's master's committee. Students may change between options one time by filing an amended Master's Program Plan and with approval of the departmental graduate committee. A student who receives financial support under a research assistantship is enrolled in the thesis option by default. Students who have held a research assistantship will require approval from the departmental graduate committee to change to one of the non-thesis options.

Thesis Option: Specific requirements of the thesis option are a minimum of 30 semester hours including:

1. Six semester hours of mathematics at the 400 level* or above selected from a list approved by the graduate committee, or 6 semester hours of ECE courses at the 500 level or above, or 6 semester hours of non-ECE courses approved by the student's master's committee and the graduate committee.
2. An additional 18 semester hours of 400-level* or above work in electrical and computer engineering, with at least 6 hours of 500-level or 600-level work in each of two areas of electrical and computer engineering.
3. Master's thesis, totaling 6 semester hours.
4. A final oral examination covering the thesis and related coursework.

Non-Thesis Courses Only Option: Specific requirements of the non-thesis courses only option are a minimum of 30 semester hours including:

1. Six semester hours of mathematics at the 400 level* or above selected from a list approved by the graduate committee, or 6 semester hours of ECE courses at the 500 level or above, or 6 semester hours of non-ECE courses approved by the student's master's committee and the graduate committee.
2. An additional 24 semester hours of 400-level* or above work in electrical engineering or computer engineering, with 18 of the hours at the 500-level or 600-level. Of the 18 hours required at the 500-level or above, at least 6 hours of work in each of two areas of electrical engineering or computer engineering and an additional 6 hours outside of the two areas.
3. A final comprehensive written examination. This examination will be given in January and August.

Non-Thesis Project Option: Specific requirements of the non-thesis project option are a minimum of 30 semester hours including:

1. Six semester hours of mathematics at the 400 level* or above selected from a list approved by the graduate committee, or 6 semester hours of ECE courses at the 500 level or above, or 6 semester hours of non-ECE courses approved by the student's master's committee and the graduate committee.

2. An additional 21 semester hours of 400-level* or above work in electrical engineering or computer engineering, with 15 of the hours at the 500-level or 600-level. Of the 15 hours, at least 6 hours of work in each of two areas of electrical engineering or computer engineering and an additional 3 hours of work outside of the two areas.
3. ECE 501 (project in lieu of thesis) with a minimum grade of B. This course will be administered by the student's master's committee. A written project proposal describing what the student will do in the course must be submitted in advance for the graduate committee's approval. A written final report and oral presentation is required and one copy of the final draft must be submitted to the graduate committee.
4. A final written and oral examination covering the project and related coursework.

*NOTE: At least two thirds of the minimum required hours must be taken in courses numbered at or above the 500 level.

ADD DIRECT PhD PROGRAM OPTION

On page 99 of the 2003-2004 Graduate Catalog, replace the existing text with:

THE DOCTORAL PROGRAM

The Ph.D. degree is offered with a major in Electrical Engineering. Exceptional students holding the Bachelor's degree may be admitted to the doctoral program without first obtaining a Master's degree. Candidates holding the MS degree must satisfy requirements 2 through 7 below while candidates holding only the BS must satisfy requirements 1 through 7.

Applicants are required to submit scores from the General Graduate Record Exam (GRE). A TOEFL score of 550 on the written exam or 213 on the computer exam is required for non-native speakers of English, including those who have earned degrees at U.S. institutions. Specific departmental requirements for the Ph.D. include the following:

1. For students holding only a BS degree, a minimum of 48 course hours is required. The first 24 course hours should satisfy:
 - a. Six semester hours of mathematics at the 400 level or above selected from a list approved by the graduate committee, or 6 semester hours of ECE courses at the 500 level or above, or 6 semester hours of non-ECE courses approved by the student's master's committee and the graduate committee.
 - b. An additional 18 semester hours of 400-level or above work in electrical and computer engineering, with at least 6 hours of 500-level or 600-level work in each of two areas of electrical and computer engineering.

In addition the student must satisfy requirements 2 through 7 below.

2. For students holding an MS, a minimum of 24 semester hours of coursework excluding research and dissertation credit or seminar courses must be taken at The University of Tennessee. These hours must include:
 - a. A minimum of 12 semester hours in electrical and computer engineering at the 500 and 600 levels.
 - b. A minimum of 9 semester hours of 600-level coursework. A least 3 hours of this work must be in an area other than the student's major area.
 - c. A minimum of 6 hours of mathematics at the 500 level or above and approved by the departmental graduate committee.
3. Satisfactory performance on a qualifying examination. The qualifying examination is prepared by the Electrical and Computer Engineering faculty and consists of two 4-hour written examinations covering courses required in the undergraduate electrical and computer engineering curriculum through the junior level. The qualifying examination is offered twice each year (January and August), and a student is to take it the first time it is offered after the student enrolls in the program. A student who fails the qualifying examination must take and pass the examination the next time it is offered to remain in the program. A minimum of 12 hours of coursework must be completed after the student has taken the qualifying examination the first time.
4. Satisfactory performance on a comprehensive examination. The comprehensive examination is administered by the student's committee; the exam results are reported to the graduate committee for approval; and the exam is filed in the department. The comprehensive exam is given when the student is ready to apply for admission to candidacy. The comprehensive examination consists of both written and oral parts. The written part consists of at least two sections: a complete review of the literature in the student's dissertation topic, and a review of the major tools to be used in the dissertation work. The student's committee may require additional written sections. The student must demonstrate a mastery of the dissertation area, ability to think analytically and creatively, skill in using academic resources, and ability to complete the dissertation satisfactorily. The oral part of the comprehensive examination consists primarily of a professional presentation of a proposal for dissertation work and its defense. The committee may cover additional topics in the oral part.

5. Participation in departmental seminars.
6. A minimum of 24 hours of doctoral dissertation.
7. Successful public defense of the dissertation by the student.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale. A course only M.S. option is added and several minor changes are made in program requirements, including addition of a direct Ph.D. program option.
- b. Financial impact. No additional resources are required to formally add the graduate programs in Computer Engineering. Adequate faculty, staff, equipment, facilities, course offerings and research opportunities already exist.
- c. Impact on other academic units. None

Electrical and Computer Engineering (320)

REVISE CROSS-LISTING

507 Application of Linear Algebra in Engineering Systems (3) (Same as Biomedical Engineering 507, Chemical Engineering 507, Materials Science and Engineering 507, and Mechanical Engineering 507.)

Primary course is Chemical Engineering.

REVISE COURSE TITLE AND HOURS

453 Introduction to Computer Networks (4)

(Formerly Computer Network Design (3))

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: The new name better reflects the course content and the number of hours is more appropriate for the amount of student effort required. Also this makes both senior sequences, 451-453 and 451-455 have the same number of hours.
- b. Impact on other Academic Units: None

ADD

553 Computer Networks (3) Principles of computer networks with a focus on the Internet and TCP/IP protocol suite. In-depth study of several core issues and design options involved. Employs a top-down approach in the discussion from the application layer down to the physical layer. An emphasis is given on protocol design and performance analysis. Other topics include ad-hoc networking, network security and network simulation. Assignments that require hands-on networking and programming skills will be issued in order to solve concrete problems. Prereq: 453 or consent of instructor.

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: This new graduate course will provide students with in-depth study of the Internet protocol suite and the underlying design philosophy. Students will be prepared for protocol design, simulation, and evaluation. This course has been taught for two years as a special topics course. Assigning a permanent course number will reduce the special topics courses offered by the department and allow graduate students to better plan their curriculum.
- b. Course format and location: Standard format, on-campus
- c. Impact on other academic units: None
- d. Financial impact: None.

ADD

557 Computer Architecture and Design (3) An exploration of the central issues in computer architecture: instruction set design, addressing and register set design, control unit design, microprogramming, memory hierarchies (cache and main memories, mass storage, virtual memory), pipelining, bus organization, RISC (Reduced Instruction Set Computers), and CISC (Complex Instruction Set Computers), implementation issues, technology trends, architecture modeling and simulation. Prerequisites: none.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: This new graduate course will provide students with a background on computer systems architecture and implementation issues. It will prepare them to analyze, design, and effectively use computer systems.

- b. Course format and location: Standard format, on-campus. This course has been offered three times as a special topics course with substantial enrollment. Assigning a permanent course number will allow students to better plan their curriculum and reduce the number of special topics courses offered by the department.
- c. Impact on other academic units: None.
- d. Financial impact: None.

ADD

615 Control of Electric Machines (3) Models in the form of nonlinear differential equations are developed for the induction, synchronous, brushless DC and switched reluctance motors. High performance methods of control based on state space techniques are developed including field-oriented and input-output linearization control.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: This new graduate course will provide students with a sophisticated background in the modeling of electric machines and their control. It will prepare them to read any and all of the current literature in this field. This course has been offered two times as a special topics course with enrollment adequate to justify a permanent course. Assigning a permanent course number will allow students to better plan their curriculum and reduce the number of special topics courses offered by the department.
- b. Course format and location: Standard format, on-campus.
- c. Impact on other academic units: None.
- d. Financial impact: None.

ADD

657 Advanced Computer Architecture and Design (3) Advanced computer architecture issues including topics such as superscalar architectures, parallel algorithms, principles of parallelism detection and vectorizing compilers, interconnection networks, SIMD/MIMD machines, processor synchronization, shared and distributed memory, data coherence, multiprocessors, multicomputers, dataflow machines, special purpose processors. Prereq: 557.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: This new graduate course will provide students with a background on advanced computer systems architecture and implementation issues. It will prepare them to read any and all of the current literature in the field. This course has been offered previously as a special topics course with high enrollment. Assigning a permanent course number will allow students to better plan their curriculum and reduce the number of special topics courses offered by the department.
- b. Course format and location: Standard format, on-campus.
- c. Impact on other academic units: None.
- d. Financial impact: None.

ADD

658 Computer and Telecommunications Systems Performance Evaluation (3) Introduction to the basic tools of computer and communications systems analysis and evaluation. Deterministic and stochastic modeling concepts are presented. Queueing theory and discrete event (DES) simulation methods are studied with application to a variety of examples drawn from the computer and communications performance evaluation literature. A standard DES language is used in modeling and simulation studies. Topics of current interest such as computer input/output models, mass memory, bus models, and communications network models are discussed. A modeling project is typically required. Prereq: 504.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: This new graduate course will provide students with a background on the tools and techniques used to analyze the performance of computer and telecommunications systems. It will prepare them to read any and all of the current literature in the field. This course has been offered previously as a special topics course. Assigning a permanent course number will allow students to better plan their curriculum and reduce the number of special topics courses offered by the department.
- b. Course format and location: Standard format, on-campus.
- c. Impact on other academic units: None.
- d. Financial impact: None.

ADD

659 Digital Systems Verification (3) Three critical issues for robust digital systems are design errors, manufacturing faults, and failures during operation. This course covers digital system verification, testing, and reliability for both timing and logic, in order to prepare students to deal with these in real designs. Verification will cover formal verification for logic and timing, and contrast with simulation. Methods for generating test vectors, scan testing, and built-in self test will be covered. MTBF will be calculated for several small systems with emphasis on models and their limitations. Prereq: 551, 557.

Effective: Fall 2004

SUPPORTING INFORMATION:

- a. Rationale: This new graduate course will provide students with a background on techniques for detecting errors and faults in digital systems. It will prepare them to analyze and design functionally correct and fault-tolerant digital systems.
- b. Course format and location: Standard format, on-campus.
- c. Impact on other academic units: None.
- d. Financial impact: None.

DEPARTMENT OF INDUSTRIAL AND INFORMATION ENGINEERING

*Note: The effective date notation **Effective: Fall 2004*** assumes approval of the IE Ph.D. program in time for it to be effective in Fall 2004. If not, actions with this notation must be delayed to Fall 2005.

ADD PhD PROGRAM IN INDUSTRIAL ENGINEERING

On page 121 of the 2003-2004 Graduate Catalog, add Ph.D. and change the department name. (The department name was changed to Industrial and Information Engineering September 2003. See informational item on page G291 of the October 9, 2003 Graduate Council Minutes.)

To

Industrial and Information Engineering

MAJOR
Industrial Engineering

DEGREES
M.S., M.S.-MBA, Ph.D.

On page 121 of the 2003-2004 Graduate Catalog, revise the first paragraph.

To

The Department of Industrial and Information Engineering offers graduate degrees leading to the Master of Science and a Doctor of Philosophy with a major in Industrial Engineering. These degrees offer concentrations in traditional industrial engineering, information engineering, engineering management, human factors engineering, manufacturing systems engineering, and product development and manufacturing (available only in the dual MS/MBA program).

The Departmental Graduate Committee is responsible for administering, promoting, and advancing the general well being of the graduate program. Departmental actions regarding a graduate student may be appealed in writing, first to the departmental graduate committee and then to the departmental faculty.

Effective: Fall 2004*

ADD INFORMATION ENGINEERING CONCENTRATION TO THE M.S. – INDUSTRIAL ENGINEERING

On page 121 of the 2003-2004 Graduate Catalog, revise the first paragraph under the subsection **The Master's Program.**

To

Students who enroll in the Master of Science degree may select a concentration in industrial engineering, information engineering, engineering management, product development and manufacturing, or manufacturing systems engineering. Each of these concentrations, with the exception of the product development and manufacturing, allows a student to select either a thesis or non-thesis option. Students who select the manufacturing systems engineering concentration of the dual degree program must select the non-thesis option. The thesis option requires 27 hours of coursework and 6 hours thesis. The non-thesis option requires 30 hours of coursework and a 3-hour design project; the engineering management concentration requires an additional 3 hours.

On page 121 of the 2003-2004 Graduate Catalog, add the following subsection after the Industrial Engineering subsection.

Information Engineering

Information Engineering is concerned with the specification, design, implementation and management of data- and knowledge-intensive information systems. The engineering of large-scale information systems requires knowledge and practical experience in areas such as database management systems, data modeling, information optimization, knowledge acquisition, data/knowledge representation, software systems engineering, and network design and management.

Effective: Fall 2004

REVISE DUAL DEGREE STATEMENT

On page 121-122 of the 2003-2004 Graduate Catalog, delete the showcase Curriculum for Dual MS-MBA Degree subsection. The dual degree text remains.

Effective: Fall 2004

REVISE DOCTORAL DEGREE CATALOG SUBSECTION

On page 122 of the 2003-2004 Graduate Catalog, revise the paragraphs in the subsection **Doctoral Degree**.

To

Admission to the Ph.D. program requires an undergraduate degree and academic background that meets the admission criteria for the master's program in industrial engineering or a master's degree in industrial engineering (or a closely related field), and previous academic performance that clearly demonstrates the capacity to do original research and technical investigative work and the potential for a successful scholarly career. If admitted, prerequisites (if required) will be established by the graduate committee based on the student's academic background. All students are required to take the Graduate Record Examinations (GRE), and submit three letters of reference and a personal statement about their professional goals. International students are also required to take the Test of English as a Foreign Language (TOEFL).

The total program of study requires a minimum of 72 graduate semester hours beyond the Bachelor's degree, exclusive of credit for the master's thesis. This includes a minimum of 48 graduate semester hours of coursework beyond the bachelor's degree and 24 semester 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 48 semester hours of coursework (other than research and dissertation) dependent on the previous program of study.

Effective: Fall 2004*

Supporting Information:

- a. Rationale: These changes are made to reflect the name change and refocusing of the department. The final change is being submitted to support the formalization of the department's PhD program. It is addressed specifically on pages 1, 3-6, and 11-14 of the Proposal for the Initiation of a New Program Degree Program for the proposed Ph.D. program. In summary, the department wishes to formalize a degree program that it has been offering for several years.
- b. Impact on other academic units: Except for the final change, these changes affect only the department. The MS-MBA change is editorial to maintain consistency in the way each MS concentration is described in the catalog. For the final change, the Engineering Science program under the Department of Mechanical, Aerospace and Biomedical Engineering will be relieved from approving Ph.D. program-related recommendations made by the Department of Industrial and Information Engineering. Since the Department of Industrial and Information Engineering has always assumed the responsibility for administering the program including admission of students, course requirements, administering the qualifying and comprehensive examinations, and supervising doctoral research and dissertation work, this impact will be positive in removing their involvement in admissions.
- c. Financial Impact: This is addressed specifically on pages 17-18 of the Proposal for the Initiation of a New Program Degree Program for the proposed Ph.D. program. In summary, formalizing this program is not requiring new resources because the department has been providing courses for and advising its PhD students for several years.

REVISE CATALOG CHART TO ADD PH.D. PROGRAM AND INFORMATION ENGINEERING CONCENTRATION

On page 11 of the 2003-2004 Graduate Catalog, revise the catalog statement

To

Industrial Engineering*

M.S., Ph.D.

M.S. and Ph.D. – Traditional industrial engineering, engineering management, human factors engineering, information management, manufacturing systems engineering, product development and manufacturing. Dual **M.S.-MBA** program available. **Certificate program** – maintenance and reliability engineering.

Effective: Fall 2004*

ADD FOR GRADUATE CREDIT

455 Human-Computer Interaction (3) Introduction to the analysis, design, production, and implementation of systems requiring interaction between humans and computers (HCI). Includes human sensory systems, human memory capacity, computer hardware/software requirements, input/output device design, and error message handling. Computer Programming skills are required. Prereq: 304 and Coreq: 421.

ADD

555 Advanced Topics in Human-Computer Interactions (3). This course is a combination seminar/hands-on all phases of the product development lifecycle, examining the impact of human-computer interactions (HCI design course that covers) at each. It focuses on a user-centered approach to product design, addressing and applying usability to physical designs and web designs. The course includes lectures, discussions, demonstrations and field trip to a local usability lab. Prereq: 455 or consent of instructor.

Effective: Fall 2004**Supporting Information**

- Rationale: These courses are being developed to support the new Departmental concentration in information engineering.
- Impact on Other Academic Units: None
- Financial Impact: The department has two searches underway for faculty in this new focus area. The undergraduate course will be taught as a special topics course this spring.

ADD

600 Doctoral Research and Dissertation (3-15) P/NP only.

Effective: Fall 2004***Supporting Information**

- Rationale: This course is being offered to support the proposed new PhD Program within the department.
- Impact on Other Academic Units: Our students will no longer register for ES 600. However, ES faculty have never been involved in directing doctoral research for students in the IE concentration.
- Financial Impact: The department has always directed the research of its doctoral students, so no new resources are required.

DROP

512 Process Development and Market Feasibility (3)

Effective: Fall 2004**Supporting Information**

- Rationale: Low Enrollment and resultant failure to offer necessitates removing it from the curriculum
- Impact on other academic units: None. This course was developed for the dual-degree program, but it was never taught. Thus, no participants in the dual program are affected because dual students have always taken other graduate courses to meet requirements.
- Financial Impact: None. There is no impact on resources.

DROP SECONDARY CROSS-LISTED COURSE

523 Mathematical Programming (3) (Same as Management Science 531.)

Effective: Fall 2004**Supporting Information:**

- Rationale: Departmental faculty have developed a new course to replace it.
- Impact on other academic units: Management Science has been contacted about change.
- Financial Impact: None

ADD

552 Advanced Linear Programming and Extensions (3) Linear programming solution procedures, duality, sensitivity, and parametric analysis; and quadratic, separable, integer, and goal programming. Prereq: 301.

Effective: Fall 2004

Supporting Information:

- a. Rationale: Departmental faculty have developed a new course to replace and update the contents of the current IE523 course.
- b. Course format and location: Course will meet 3 hours weekly on campus.
- c. Impact on other academic units: Management Science has been contacted of change. The IE523 course was cross-listed, but this new course will not be. It was taught as a special topic course Fall 2003.
- d. Financial Impact: None

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

ADD GRE REQUIREMENT STATEMENT FOR MS AND PHD ADMISSION

On page 141 of the 2003-2004 Graduate Catalog, in the Materials Science and Engineering section, immediately before "THE MASTER'S PROGRAM" section, add the following:

ADMISSION REQUIREMENTS

Applicants for admission to the M.S. and Ph.D. degree programs in Materials Science and Engineering, and Polymer Engineering, are expected to have completed a bachelor's degree in an area of engineering or science with a grade-point-average of at least 3.0 out of 4.0 both overall and in the senior year. In addition, all applicants are required to submit scores from the General Graduate Record Examination (GRE). Applicants whose native language is not English must score at least 213 on the computer-based TOEFL examination or 550 on the written examination to be considered for admission to the programs.

To appear in the 2004-2005 Graduate Catalog.

Effective: Fall 2005

Materials Science and Engineering (638)

ADD FOR GRADUATE CREDIT

476 Overview of Intermetallic Compounds and Composites (3) Fabrication and processing, ultrafine-grained materials - nanotechnology, thermodynamics and stability, microstructural characterizations, mechanical properties, corrosion and oxidation properties, theoretical modeling, and design and industrial applications of intermetallics and composites. Laboratory demonstrations and group projects. Prereq: 201.

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: A new course in an important field within Materials Science and Engineering, associated with a new NSF Combined Research and Curriculum Development grant, is being offered.
- b. Course format and location: Standard format, on-campus.
- c. Impact on other academic units: None.
- d. Financial impact: None.

ADD

632 Advanced Topics in Intermetallic Compounds and Composites (3) Thermodynamics, mechanical behavior, corrosion and oxidation, and modeling of intermetallic compounds and composites. Prereq: 476 or permission of instructor.

633 Design of Intermetallic Compounds and Composites (3) Team-based design projects, including literature review, material selection, material/component design and fabrication, material properties, and theoretical modeling. Prereq: 476 and 632, or permission of instructor.

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: A new course in an important field within Materials Science and Engineering, associated with a new NSF Combined Research and Curriculum Development grant, is being offered.
- b. Course format and location: Standard format, on-campus.
- c. Impact on other academic units: None.
- d. Financial impact: None.

REVISE CROSS-LISTING

507 Application of Linear Algebra in Engineering Systems (3) (Same as Biomedical Engineering 507, Chemical Engineering 507, Electrical and Computer Engineering 507, Mechanical Engineering 507.)

Primary course is Chemical Engineering.

Effective: Fall 2004

DEPARTMENT OF MECHANICAL, AEROSPACE, AND BIOMEDICAL ENGINEERING

Aerospace Engineering (018)

REVISE CROSS-LISTING TO ADD BIOMEDICAL ENGINEERING TO ALL

541 Fluid Mechanics I (3) (Same as Biomedical Engineering 541, Engineering Science 541, and Mechanical Engineering 541.)

Primary course is Mechanical Engineering 541.

539 Continuum Mechanics (3) (Same as Biomedical Engineering 539, Engineering Science 539, and Mechanical Engineering 539.)

Primary course is Engineering Science 539.

535 Mechanical Vibrations (3) (Same as Biomedical Engineering 534, Engineering Science 534, and Mechanical Engineering 534.)

Primary course is Mechanical Engineering 534.

571 Finite Elements for Engineering Applications (3) (Same as Biomedical Engineering 561, Engineering Science 551, and Mechanical Engineering 561.)

Primary course is Engineering Science 551.

572 Computational Fluid Dynamics (3) (Same as Biomedical Engineering 562, Engineering Science 552, and Mechanical Engineering 562.)

Primary course is Engineering Science 552.

Effective: Fall 2004

ADD AND CROSS-LIST

555 Human Vibrations Analysis and Protection (3) (Same as Biomedical Engineering 555 and Mechanical Engineering 555.)

Primary course is Biomedical Engineering 555.

559 Advanced Mechanics of Materials I (3) (Same as Biomedical Engineering 559, Engineering Science 559, Mechanical Engineering 559.)

Primary course is Mechanical Engineering 559.

659 Advanced Mechanics of Materials II (3) (Same as Biomedical Engineering 659, Engineering Science 659, Mechanical Engineering 659.)

Primary course is Mechanical Engineering 659.

Effective: Fall 2004

Biomedical Engineering (192)

ADD

511 Biotransport Processes (3) Cellular transport and electrical properties from a combined biological, physical, and engineering point of view. Matter transport across cellular membranes involving diffusion, osmosis, coupled solute and solvent transport, carrier-mediated transport, and ion transport. Homeostatic mechanisms involved in maintaining cellular solute concentrations, volume, and potential. Electrically inexcitable and excitable cells, lumped parameter and distributed-parameter cell models, linear electric properties of cells, and voltage gated ion channels. Prereq: Electrical and Computer Engineering 301 or consent of instructor.

ADD PRIMARY COURSE AND CROSS-LIST

531 Advanced Biomechanics I (3) Derivation of mathematical models of the human body using Kane's Method of Dynamics to create system equations of motions. Mathematical models will pertain to human non-implanted and implanted joints. Models will be created by hand and using the symbolic manipulation algorithm Autolev. Prereq: Mechanical Engineering 231. (Same as Mechanical Engineering 531.)

ADD

610 Advanced Topics in BME (3) Current research topics of interest in biomedical engineering. Consent of instructor.

611 Fields, Forces and Flows in Cells and Tissues (3) Applications of equilibrium and non-equilibrium thermodynamics to rate processes and forces in cells and tissues. Fields in heterogeneous media, electrical double layers, and electromechanical forces in physiological systems. Fluid and solid continuum mechanics of porous hydrated biological tissues. Electrophoretic, electroosmotic flows, and diffusion-reaction. Electromechanical and physicochemical interactions in biomaterials and cells. Case studies in membrane transport, electrode interfaces, electrical, mechanical, and chemical transduction in tissues. Cardiovascular, orthopedic and other clinical examples. Prereq: 511 or consent of instructor.

ADD PRIMARY COURSE AND CROSS-LIST

631 Advanced Biomechanics II (3) Using the symbolic manipulation algorithm, difficult systems pertaining to the human body will be modeled. A more in depth analysis of Kane's method of multibody dynamics will also be implemented in these models. Each student will focus on one complex model that pertains to an orthopedic complication that the orthopedic industry needs solved. Prereq: 531. (Same as Mechanical Engineering 631.)

SUPPORTING INFORMATION: (BME 511, 611, 531, 631, 610)

- Rationale: Courses are required in support of new faculty in BME program. All courses have been taught as special topics. BME 511 and 611 are required by NSF contract.
- Course format and location: Course meets twice a week in a standard classroom environment.
- Impact on other academic units: None
- Financial impact: None expected.

ADD PRIMARY COURSE AND CROSS-LIST

555 Human Vibrations Analysis and Protection (3) Concepts of whole body vibrations, background information on the development of ANSI and ISO Standards for the protections of workers from whole body vibrations; how to apply the standards to meet the EU requirements; measurement methods and signal processing requirements for whole body vibration; background information on the development of ANSI and ISO Standards for the protections of workers for vibration white finger syndrome; development criteria for current ANSI, ISO, and EU standards; measurements methods and requirements, effectiveness of anti-vibration gloves. Prereq: Mechanical Engineering 363, Mechanical Engineering 534, consent of instructor. (Same as Mechanical Engineering 555, Aerospace Engineering 555.)

SUPPORTING INFORMATION: (BME 555)

- Rationale: Course is required to support new research areas. This course has been taught as a special topics course.
- Course format and location: Course meets twice a week in a standard classroom environment.
- Impact on other academic units: None
- Financial impact: None expected.

ADD AND CROSS-LIST

507 Application of Linear Algebra in Engineering Systems (3) (Same as Chemical Engineering 507, Electrical and Computer Engineering 507, Materials Science and Engineering 507 and Mechanical Engineering 507.)

Primary course is Chemical Engineering 507.

534 Mechanical Vibrations (3) (Same as Aerospace Engineering 535, Engineering Science 534 and Mechanical Engineering 534.)

Primary course is Mechanical Engineering 534.

539 Continuum Mechanics (3) (Same as Engineering Science 539, Aerospace Engineering 539 and Mechanical Engineering 539.)

Primary course is Engineering Science 539.

541 Fluid Mechanics I (3) (Same as Aerospace Engineering 541, Engineering Science 541 and Mechanical Engineering 541.)

Primary course is Mechanical Engineering 541.

559 Advanced Mechanics of Materials I (3) (Same as Aerospace Engineering 559, Engineering Science 559, and Mechanical Engineering 559.)

Primary course is Mechanical Engineering 559.

561 Finite Elements for Engineering Applications (3) (Same as Aerospace Engineering 571, Engineering Science 551, and Mechanical Engineering 561.)

Primary course is Engineering Science 551.

562 Computational Fluid Dynamics (3) (Same as Aerospace Engineering 572, Engineering Science 552 and Mechanical Engineering 562.)

Primary course is Engineering Science 552.

577 Neural Networks in Engineering (3) (Same as Engineering Science 577, Mechanical Engineering 577, and Nuclear Engineering 557.)

Primary course is Nuclear Engineering 577.

587 Dynamic Modeling and Simulation (3) (Same as Mechanical Engineering 587.)

Primary course is Mechanical Engineering 587.)

659 Advanced Mechanics of Materials II (3) (Same as Aerospace Engineering 659, Engineering Science 659, Mechanical Engineering 659.)

Primary course is Mechanical Engineering 659.

All Biomedical Engineering Course Additions Effective: Fall 2004

Engineering Science (335)

DROP

523 Theory of Elasticity (3)

Effective: Fall 2004

ADD AND CROSS-LIST

559 Advanced Mechanics of Materials I (3) (Same as Biomedical Engineering 559, Aerospace Engineering 559, Mechanical Engineering 559.)

Primary course is Mechanical Engineering 559.

659 Advanced Mechanics of Materials II (3) (Same as Biomedical Engineering 659, Aerospace Engineering 659, Mechanical Engineering 659.)

Primary course is Mechanical Engineering 659.

Effective: Fall 2004

REVISE CROSS-LISTING TO ADD BIOMEDICAL ENGINEERING

534 Mechanical Vibrations (3) (Same as Mechanical Engineering 534, Aerospace Engineering 535 and Biomedical Engineering 534.)

Primary course is Mechanical Engineering 534.

539 Continuum Mechanics (3) (Same as Aerospace Engineering 539, Biomedical Engineering 539, and Mechanical Engineering 539.)

Primary course is Engineering Science 539.

541 Fluid Mechanics I (3) (Same as Aerospace Engineering 541, Biomedical Engineering 541 and Mechanical Engineering 541.)

Primary course is Mechanical Engineering 541.

551 Finite Elements for Engineering Applications (3) (Same as Aerospace Engineering 571, Mechanical Engineering 561 and Biomedical Engineering 561.)

Primary course is Engineering Science 551.

552 Computational Fluid Dynamics (3) (Same as Aerospace Engineering 572, Mechanical Engineering 562 and Biomedical Engineering 562.)

Primary course is Engineering Science 552.

577 Neural Networks in Engineering (3) (Same as Biomedical Engineering 577, Mechanical Engineering 577, and Nuclear Engineering 577.)

Primary Department is Nuclear Engineering 577.

Effective: Fall 2004

Mechanical Engineering (650)

REVISE TITLE

527 Thermal Systems Analysis I (3)

(Formerly: Thermal Systems Analysis)

Effective: Fall 2004

ADD

528 Thermal Systems Analysis II (3) Analysis of steady turbulent convection heat transfer. Properties of radiating surfaces. Diffuse, specular and directional interchange for gray and non-gray surfaces. Interaction

with other heat transfer modes. Emphasis on model development and parametric analysis of thermal systems using commercial software. Prereq: 527.

Effective: Fall 2004

SUPPORTING INFORMATION: (ME 527, 528)

- a. Rationale: We are replacing two 3-hour courses at UTK (511, 512) with one 3-hour course. UTSI wishes to retain 511 and 512.
- b. Course format and location: Courses meet twice a week in electronic classroom.
- c. Impact on other academic units: None.
- d. Financial impact: None expected.

DROP

535-536 Advanced Strength of Materials (3, 3)

Effective: Fall 2004

ADD PRIMARY COURSE AND CROSS-LIST

559 Advanced Mechanics of Materials I (3) Elasticity in three dimensions: equations of equilibrium, strain-displacement relations, compatibility, constitutive equations. Energy methods. Beams on elastic foundation, unsymmetrical bending, shear center, beam-columns, buckling, plastic collapse. Prereq: Mechanical Engineering 321 (Same as Aerospace Engineering 559, Biomedical Engineering 559, and Engineering Science 559.)

659 Advanced Mechanics of Materials II (3) Plane stress and plane strain in rectangular and polar coordinates; stress functions. Torsion of noncircular sections. Disks, thick-walled tubes, thick-walled pressure vessels. Theory of rectangular and circular plates, plates with holes, axisymmetric shells. Stress concentrations. Prereq: Mechanical Engineering 559 or consent of instructor. (Same as Aerospace Engineering 659, Biomedical Engineering 659, and Engineering Science 659.)

Effective: Fall 2004

SUPPORTING INFORMATION: (ME 559, 659, 535, 536)

- a. Rationale: We're dropping three courses: ES 523, ME 535-536, and replacing with ME 559-659 to avoid duplication of material.
- b. Course format and location: Courses meet twice a week in a standard classroom environment.
- c. Impact on other academic units: None
- d. Financial impact: None expected.

REVISE CROSS-LISTING TO ADD BIOMEDICAL ENGINEERING TO ALL

534 Mechanical Vibrations (3) (Same as Aerospace Engineering 535, Biomedical Engineering 534, and Engineering Science 534.)

Primary course is Mechanical Engineering 534.

539 Continuum Mechanics (3) (Same as Aerospace Engineering 539, Biomedical Engineering 539, and Engineering Science 539.)

Primary course is Engineering Science 539.

541 Fluid Mechanics I (3) (Same as Aerospace Engineering 541, Biomedical Engineering 541, and Engineering Science 541.)

Primary course is Mechanical Engineering 541.

561 Finite Elements for Engineering Applications (3) (Same as Aerospace Engineering 571, Biomedical Engineering 561, and Engineering Science 551.)

Primary course is Engineering Science 551.

562 Computational Fluid Dynamics (3) (Same as Aerospace Engineering 572, Biomedical Engineering 562, and Engineering Science 552.)

Primary course is Engineering Science 552.

577 Neural Networks in Engineering (3) (Same as Biomedical Engineering 577, Engineering Science 577, and Nuclear Engineering 577.)

Primary Department is Nuclear Engineering.

587 Dynamic Modeling and Simulation (3) (Same as Biomedical Engineering 587.)

Primary course is Mechanical Engineering.

Effective: Fall 2004

ADD AND CROSS-LIST

531 Advanced Biomechanics I (3) (Same as Biomedical Engineering 531.)

Primary course is Biomedical Engineering 531.

555 Human Vibrations Analysis and Protection (3) (Same as Aerospace Engineering 555 and Biomedical Engineering 555.)

Primary course is Biomedical Engineering 555.

631 Advanced Biomechanics II (3) (Same as Biomedical Engineering 631.)

Primary course is Biomedical Engineering 631.

Effective: Fall 2004

DEPARTMENT OF NUCLEAR ENGINEERING

ADD DUAL MS - MBA

Revise Graduate Majors and Degree Programs Chart - *Graduate Catalog*

To

Nuclear Engineering* M.S., Ph.D.

M.S. and Ph.D. – radiological engineering. Dual **MS-MBA** Program available. Certificate program in maintenance and reliability engineering, and in nuclear criticality safety also available.

Add a dual degree program of M.S.-MBA with a major in Nuclear Engineering and in Business Administration at the end of the Master's Program description in the *Graduate Catalog*.

DUAL M.S. - MBA PROGRAM

The College of Business Administration and the College of Engineering offer an integrated program in product development and manufacturing leading to the conferral of the Master of Business Administration degree and the Master of Science degree with a major in Nuclear Engineering. The establishment of the dual program addresses the critical need for personnel trained in both engineering and management who can integrate an increasingly complex body of knowledge for rapid introduction of new products to the marketplace. The objective of the dual degree program is to prepare graduates to take a leading management role in companies that must react quickly to a dynamic market where forces of competition require rapid changes in design and manufacturing and a short product development cycle.

Admission Requirements

Applications are accepted for fall semester only. Applicants for the M.S.-MBA program must make separate application to, and be competitively and independently accepted by the Office of Graduate Admissions for the Master of Business Administration degree program and the Master of Science degree program with a major in Nuclear Engineering, and by the Dual Program Committee.

Students will initially apply for the MBA program, indicating on their application the intent to pursue the dual M.S.-MBA program and the appropriate engineering major (refer to the MBA program for separate instructions). Students accepted for both the MBA and the M.S. with a major in Nuclear Engineering program will be assigned to a Dual Program Committee advisor (a faculty member in Nuclear Engineering) who will be responsible for course approval and overall supervision of the students' progress through the dual program.

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

Curriculum

All engineering students enrolled in the product development and manufacturing program must complete common coursework designed to provide them with an integrated, multidisciplinary teamwork experience. The MBA curriculum in product development and manufacturing consists of 33 hours of common coursework in the College of Business Administration and 15 hours of common coursework in the College of Engineering. Engineering common coursework includes a culminating 3-hour integrated project course requiring a comprehensive report, and a final examination as required by the Dual Program Committee, to be taken during the first session of summer following the second year.

During the second year, dual degree candidates will also take courses in their engineering major. The coursework is designed to provide students with a concentration in their major and advanced skills to accomplish their teamwork assignments. Dual degree candidates enrolled in nuclear engineering are required to take 18 hours of graduate-level nuclear engineering courses during the second year of the program, which must be approved by the student's Dual Program Committee Advisor. In addition, a dual degree candidate who majors in nuclear engineering must successfully defend, in an oral examination administered by at least three nuclear engineering faculty members including the student's Dual Program Committee Advisor, all work presented for the M.S. degree—all coursework and the culminating integrated project.

Program Curriculum for Dual M.S.-MBA Degree – Major in Nuclear Engineering**August - First Year**

BA 511 MBA Core I	3
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Fall - First Year

BA 512 MBA Core II	15
ME 504 Product Development Process	1

Spring

BA 513 MBA Core III	9
ME 506 Product Selection and Evaluation	2
ME 508 Integrated Product, Process, and Manufacturing System Design	3

Summer

--- Internship	--
BA 514 Integrated Business Simulation	3
NE 509 Project Management	1

Fall - Second Year

IE 511 Business Planning and Commercialization	1
NE 509 Project Management	1
--- Nuclear Engineering courses	9

Spring

--- MBA "hub" course elective	3
NE 509 Project Management	1
--- Nuclear Engineering courses	9

Summer (first session)

NE 594 Culminating Integrated Project Report	3
TOTAL	66

The dual degree candidate must satisfy the curriculum and graduation requirements of the engineering major being pursued 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 M.S. and the MBA degrees will be awarded upon successful completion of the requirements of the dual program.

Effective: Fall 2004

REVISE PhD IN NUCLEAR ENGINEERING TO ALLOW 3 HOURS AT THE 600-LEVEL TO BE TAKEN OUTSIDE THE DEPARTMENT

On page 162, column 1 of the 2003-2004 *Graduate Catalog*, revise statement 3.

To

3. A minimum of 30 semester hours in nuclear engineering courses numbered 500 and above (or the equivalent), with at least 9 semester hours of 600-level courses. These are exclusive of thesis or dissertation credit. Three of the 9 hours of 600-level courses can be from a department other than nuclear engineering provided the selection supports the student's research area.

Effective: Fall 2004

SUPPORTING INFORMATION

- a. Rationale: Desire to take advantage of 600-level expertise outside of the Nuclear Engineering Department that will support the student's dissertation research.

Nuclear Engineering (716)

REVISE CROSS-LISTING TO ADD BIOMEDICAL ENGINEERING

577 Neural Networks in Engineering (3) (Same as Biomedical Engineering 577, Mechanical Engineering 577, and Engineering Science 577.)

Primary course is Nuclear Engineering 577.

Effective: Fall 2004

MEMORANDUM

TO: Graduate Council

FROM: Jan Lee; Associate Dean for Academic Affairs

DATE: December 10, 2003

SUBJECT: Graduate Curricular Changes – College of Nursing

The attached curricular change has been approved by the faculty of the College of Nursing and is submitted to Graduate Council for consideration:

1. Change credit hours and delete co-requisite for N531, Adult Health Nursing II.
2. Revise requirements for MSN and RN-MSN (Adult Health Nursing) due to the above change in credit hours.

COLLEGE OF NURSING

Nursing (720)

REVISE CREDIT HOURS AND DELETE COREQ

From

531 Adult Health Nursing II (6) Continuation of 530. Delivery, provision, and management of health care for adult groups and communities. Prereq: 530, 501, Prereq or coreq: 582, 583 (gerontology students only). Didactic (2) and practicum (4) .

To

531 Adult Health Nursing II (7) Continuation of 530. Delivery, provision, and management of health care for adult groups and communities. Prereq: 530, 501. Didactic (2) and practicum (5)

Effective: Fall 2004**Supporting Information:**

a. Rationale:

Faculty have voted that all MSN clinical courses should use a 1:4 clinical hour ratio. The Adult Health Concentration was using a 1:3 clinical ratio. By increasing the clinical ratio in the Adult Health Concentration courses and adding 1 hour of clinical to N531 the clinical hour requirement necessary for ANCC certification can be met, and N583 can be deleted as a required course. N583 was only used to obtain the clinical hours necessary for certification.

The loss of the N583 clinical hours will not affect students having enough hours to graduate. This change will not make any difference in didactic content or influence the number of faculty needed in the course.

b. Course format and location: N/A

c. Impact on other academic units: None

d. Financial Impact: None

REVISE REQUIREMENTS FOR MSN

This change in credit hours will result in the following revisions. On page 164 of Graduate Catalog, column 3, top of page.

Concentration

From

530-531 Adult Health Nursing I, II 12

To

530-531 Adult Health Nursing I, II 13

Effective: Fall 2004

REVISE RN-MSN PROGRAM – ADULT HEALTH NURSING SHOWCASE

In the RN-MSN Program (recently approved), the ADULT HEALTH NURSING showcase will need to be changed

From

531 Adult Health Nursing II.....6

To

531 Adult Health Nursing II.....7

Effective: Fall 2004

MEMORANDUM

TO: The Graduate Council

FROM: James J. Brace, Associate Dean for Academic Programs

DATE: January 12, 2004

RE: Graduate Curricular Changes – College of Veterinary Medicine

The attached curricular proposal (splitting the two anatomy courses into two courses each) has been unanimously approved by faculty and students on the College of Veterinary Medicine's Curriculum Committee, and has also been approved by faculty of the Department of Comparative Medicine which is the home department of the instructors teaching in these two courses. The following is a summary of this proposal.

VM 821-2 Veterinary Anatomy I, II (6, 6): split each of these anatomy courses into their respective gross anatomy and microscopic anatomy segments. Each semester there would be a four-hour gross anatomy course (VM 821 fall semester and VM 822 spring semester) and a two-hour microscopic anatomy course (VM 825 fall semester and VM 826 spring semester; these two course numbers have been obtained from Ms. Brenda Rayman). Prior to approximately 1998, these anatomy courses were taught as four courses as we are now proposing. They were combined in the College's curricular revision of 1998, into two courses.

Add Catalog text for the Veterinary Public Health concentration which is part of the Master of Public Health (M.P.H.) degree in the College of Education, Health, and Human Sciences.

COLLEGE OF VETERINARY MEDICINE

ADD CATALOG TEXT FOR THE VETERINARY PUBLIC HEALTH CONCENTRATION

On page 200, 2003-2004 Graduate Catalog, Add the following immediately before THE GRADUATE PROGRAM.

Veterinary Public Health Concentration

A Veterinary Public Health Concentration is available for students enrolled in the D.V.M. curriculum and graduate veterinarians. This concentration is part of the Master of Public Health (M.P.H.) degree in the College of Education, Health, and Human Sciences. For more information, see "Public Health" in the Graduate Catalog. The College of Veterinary Medicine (CVM) shares governance of the concentration through the Public Health Academic Program Committee and student advisors within this concentration are faculty in the CVM. This concentration requires a separate application to the MPH Program.

Veterinary Medicine (987)

REVISE CREDIT HOURS, DESCRIPTION

From

821-822 Veterinary Anatomy I, II (6,6) Integrated approach to study of developmental, macroscopic (gross), and microscopic anatomy of common domestic animals. Dissections of embalmed specimens of common domestic species for comparative purposes. Microscopy relates structure with function. Study of developmental anatomy related to normal anatomy to inherited anomalies.

To

821-822 Veterinary Anatomy I, II (4,4) Lectures, laboratories, and demonstrations are used in an integrated approach to the study of macroscopic (gross) clinically relevant anatomy, including neuroanatomy, and embryology of common domestic animals. Dissections of embalmed specimens, prosections, plastinated specimens, and radiographs of common domestic species are examined for comparative purposes.

ADD

825-826 Veterinary Microscopic Anatomy I, II (2,2) Lectures, laboratories, and demonstrations are used in the study of the cell, embryology, and microscopic anatomy of organ systems in common domestic animals to relate structure with function.

Effective: Fall 2004

Supporting information:**a. Rationale:**

- Separation of the current two courses into four courses will reduce the credit hour size of the current two courses (6 semester credits) and should significantly reduce student anxiety associated with the current large credit hour courses.
- Separation will allow better alignment of microscopic anatomy with veterinary physiology, since both courses are taught using an organ system approach. Macroscopic anatomy is taught on a body region approach rather than an organ system approach.
- Separation will provide a more realistic final examination for information covered in these courses. Currently, a large portion of new material must be covered in the final examination, and is very challenging with only a two hour final examination period. Separation will allow for a smaller amount of new material to be covered on the various final examinations.
- Separation will provide better visibility to topics which have been identified as being deficient or absent in the current veterinary anatomy courses (neuroanatomy and embryology), because these two subject matters are spread throughout the current anatomy courses. In the new proposal, they will be identified as specific segments of the courses.

b. Course format and location: Lectures, laboratories, and demonstrations will be held in the Veterinary Medicine Building.

c. Impact on other academic units: None expected. Courses are open only to students enrolled in the College of Veterinary Medicine.

d. Financial Impact: None. These courses involve the same instructors and the same number of contact hours as previously taught in the two six credit hour courses

EQUIVALENCY TABLE**Veterinary Gross and Microscopic Anatomy Courses**

Effective: Fall Semester 2004

Current Veterinary Anatomy Graduate Courses	Equivalent Anatomy Courses, Fall, 2004
VM 821 (6)	VM 821 Veterinary Anatomy I (4)
	VM 825 Veterinary Microscopic Anatomy I (2)
VM 822 (6)	VM 822 Veterinary Anatomy II (4)
	VM 826 Veterinary Microscopic Anatomy II (2)